

Fig. 1

met ser lys asn thr
val ser ser ala arg phe arg lys val asp val asp
glu tyr asp glu asn lys phe val asp glu glu asp
gly gly asp gly gln ala gly pro asp glu gly glu
val asp ser cys leu arg gln gly asn met thr ala
ala leu gln ala ala leu lys asn pro pro ile asn
thr **arg** ser gln ala val lys asp arg ala gly ser
ile val leu lys val leu ile ser phe lys ala **gly**
asp ile glu lys ala val gln ser leu asp **arg** asn
gly val asp leu leu met lys tyr ile tyr lys gly
phe glu ser pro ser asp asn ser ser ala **val** leu
leu gln trp his glu lys ala leu ala ala gly gly
val gly ser ile val arg val leu thr ala arg lys
thr val

Applicant(s): Ann M. Lees et al.

NOVEL LOW DENSITY LIPOPROTEIN BINDING PROTEINS
AND THEIR USE IN DIAGNOSING AND TREATING
ATHEROSCLEROSIS

Fig. 2A (1/3)

| | |
|--|-----|
| ggctctgtgtg tgcgtgcgtg cgagtgcgtg agtgtgtgca tttttttttt tctcttttct | 60 |
| ttctctctct tttttttttt ttgcaaaga aacagcagcg ccgccgcgcg tccgccgagg | 120 |
| cgctgcgccc cccggggggg ggaggcggag gaggcgggca gcggcggagg gaggggagcc | 180 |
| ggggaggggg gcgcgcgcgt gggagggagg cagcgcgcac ggtgcagccg ggcggggcgg | 240 |
| gaggc atg gcg ggg ccc ccg gcc cta ccc ccg ccg gag acg gcg gcg gcc | 290 |
| Met Ala Gly Pro Pro Ala Leu Pro Pro Pro Glu Thr Ala Ala Ala | |
| 1 5 10 15 | |
| gcc acc acg gcc gcg gcc gcc gcc tcg tcg tcc gcc gct tcc ccg cac | 338 |
| Ala Thr Thr Ala Ala Ala Ala Ala Ser Ser Ser Ala Ala Ser Pro His | |
| 20 25 30 | |
| tac caa gag tgg att ctg gac acc atc gac tcg ctg cgc tcg cgc aag | 386 |
| Tyr Gln Glu Trp Ile Leu Asp Thr Ile Asp Ser Leu Arg Ser Arg Lys | |
| 35 40 45 | |
| gcg cgg ccg gac ctg gag cgc atc tgc cgg atg gtg cgg cgg cgg cac | 434 |
| Ala Arg Pro Asp Leu Glu Arg Ile Cys Arg Met Val Arg Arg Arg His | |
| 50 55 60 | |
| ggc ccg gag ccg gag cgc acg cgc gcc gag ctc gag aaa ctg atc cag | 482 |
| Gly Pro Glu Pro Glu Arg Thr Arg Ala Glu Leu Glu Lys Leu Ile Gln | |
| 65 70 75 | |
| cag cgc gcc gtg ctc cgg gtc agc tac aag ggg agc atc tcg tac cgc | 530 |
| Gln Arg Ala Val Leu Arg Val Ser Tyr Lys Gly Ser Ile Ser Tyr Arg | |
| 80 85 90 95 | |
| aac gcg gcg cgc gtc cag ccg ccc cgg cgc gga gcc acc ccg ccg gcc | 578 |
| Asn Ala Ala Arg Val Gln Pro Pro Arg Arg Gly Ala Thr Pro Pro Ala | |
| 100 105 110 | |
| ccg ccg cgc gcc ccc cgc ggg ggc ccc gcc gcc gcc gcc gcg ccg ccg | 626 |
| Pro Pro Arg Ala Pro Arg Gly Gly Pro Ala Ala Ala Ala Ala Pro Pro | |
| 115 120 125 | |
| ccc acg ccc gcc ccg ccg ccg ccg ccc gcg ccc gtc gcc gcc gcc gcc | 674 |
| Pro Thr Pro Ala Pro Pro Pro Pro Pro Ala Pro Val Ala Ala Ala Ala | |
| 130 135 140 | |
| gcc ccg gcc ccg gcg ccc cgc gcg gcc gcc gcc gcc gct gcc gcc aca | 722 |
| Ala Pro Ala Arg Ala Pro Arg Ala Ala Ala Ala Ala Ala Ala Thr | |
| 145 150 155 | |
| gcg ccc ccc tcg ccc ggc ccc gcg cag ccg ggc ccc cgc gcg cag cgg | 770 |
| Ala Pro Pro Ser Pro Gly Pro Ala Gln Pro Gly Pro Arg Ala Gln Arg | |
| 160 165 170 175 | |
| gcc gcg ccc ctg gcc gcg ccg ccg ccc gcg ccc gcc gct ccc ccg gcg | 818 |
| Ala Ala Pro Leu Ala Ala Pro Pro Pro Ala Pro Ala Ala Pro Pro Ala | |
| 180 185 190 | |

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NOVEL LOW DENSITY LIPOPROTEIN BINDING PROTEINS
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Fig. 2A (continued 2/3)

| | |
|---|------|
| gcg gcg ccc ccg gcc ggc ccg cgc cgc gcc ccc ccg ccc gcc gcc gcc | 866 |
| Ala Ala Pro Pro Ala Gly Pro Arg Arg Ala Pro Pro Pro Ala Ala Ala | |
| 195 200 205 | |
| gtc gcc gcc cgg gag tcg ccg ctg ccg ccg ccg cca cag ccg ccg gcg | 914 |
| Val Ala Ala Arg Glu Ser Pro Leu Pro Pro Pro Pro Gln Pro Pro Ala | |
| 210 215 220 | |
| ccg cca cag cag cag cag cag ccg ccg ccg cca ccg ccg ccg cag cag | 962 |
| Pro Pro Gln Gln Gln Gln Gln Pro Pro Pro Pro Pro Pro Pro Gln Gln | |
| 225 230 235 | |
| cca cag ccg ccg ccg gag ggg gcc gcg gcg ccg gcc gcc gcc ccg gcg | 1010 |
| Pro Gln Pro Pro Pro Glu Gly Gly Ala Ala Arg Ala Gly Gly Pro Ala | |
| 240 245 250 255 | |
| ccg ccc gtg agc ctg ccg gaa gtc gtg cgc tac ctc ggg ggt agc agc | 1058 |
| Arg Pro Val Ser Leu Arg Glu Val Val Arg Tyr Leu Gly Gly Ser Ser | |
| 260 265 270 | |
| ggc gct gcc gcc cgc ctg acc cgc gcc cgc gtg cag ggt ctg ctg gaa | 1106 |
| Gly Ala Gly Gly Arg Leu Thr Arg Gly Arg Val Gln Gly Leu Leu Glu | |
| 275 280 285 | |
| gag gag gcg gcg gcg ccg gcc cgc ctg gag cgc acc cgt ctc gga gcg | 1154 |
| Glu Glu Ala Ala Ala Arg Gly Arg Leu Glu Arg Thr Arg Leu Gly Ala | |
| 290 295 300 | |
| ctt gcg ctg ccc cgc ggg gac agg ccc gga ccg gcg cca ccg gcc gcc | 1202 |
| Leu Ala Leu Pro Arg Gly Asp Arg Pro Gly Arg Ala Pro Pro Ala Ala | |
| 305 310 315 | |
| agc gcc cgc gcg gcg ccg aac aag aga gct gcc gag gag cga gtg ctt | 1250 |
| Ser Ala Arg Ala Ala Arg Asn Lys Arg Ala Gly Glu Glu Arg Val Leu | |
| 320 325 330 335 | |
| gaa aag gag gag gag gag gag gag gag gaa gac gac gag gac gac gac | 1298 |
| Glu Lys Glu Glu Glu Glu Glu Glu Glu Glu Glu Asp Asp Glu Asp Asp Asp | |
| 340 345 350 | |
| gac gac gtc gtg tcc gag gcc tcg gag gtg ccc gag agc gat cgt ccc | 1346 |
| Asp Asp Val Val Ser Glu Gly Ser Glu Val Pro Glu Ser Asp Arg Pro | |
| 355 360 365 | |
| gcg ggt gcg cag cat cac cag ctg aat gcc gcc gag cgc gcc ccg cag | 1394 |
| Ala Gly Ala Gln His His Gln Leu Asn Gly Gly Glu Arg Gly Pro Gln | |
| 370 375 380 | |
| acc gcc aag gag ccg gcc aag gag tgg tcg ctg tgt gcc ccc cac cct | 1442 |
| Thr Ala Lys Glu Arg Ala Lys Glu Trp Ser Leu Cys Gly Pro His Pro | |
| 385 390 395 | |
| ggc cag gag gaa ggg ccg ggg ccg gcc gcg gcc agt gcc acc cgc cag | 1490 |
| Gly Gln Glu Glu Gly Arg Gly Pro Ala Ala Gly Ser Gly Thr Arg Gln | |
| 400 405 410 415 | |

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Fig. 2A (continued 3/3)

| | | | | | | | | | | | | | | | | | |
|------------|-------------|-------------|------------|-------------|-------------|-----|-----|------------|-------------|-------------|-----|-----|-----|-----|-----|--|------|
| gtg | ttc | tcc | atg | gcg | gcc | ttg | agt | aag | gag | ggg | gga | tca | gcc | tct | tcg | | 1538 |
| Val | Phe | Ser | Met | Ala | Ala | Leu | Ser | Lys | Glu | Gly | Gly | Ser | Ala | Ser | Ser | | |
| | | | | 420 | | | | | 425 | | | | | 430 | | | |
| acq | acc | ggg | cct | gac | tcc | ccg | tcc | ccg | gtg | cct | ttg | ccc | ccc | ggg | aag | | 1586 |
| Thr | Thr | Gly | Pro | Asp | Ser | Pro | Ser | Pro | Val | Pro | Leu | Pro | Pro | Gly | Lys | | |
| | | | 435 | | | | | 440 | | | | | 445 | | | | |
| cca | gcc | ctc | cca | gga | gcc | gat | ggg | acc | ccc | ttt | ggc | tgc | cct | gcc | ggg | | 1634 |
| Pro | Ala | Leu | Pro | Gly | Ala | Asp | Gly | Thr | Pro | Phe | Gly | Cys | Pro | Ala | Gly | | |
| | | 450 | | | | | 455 | | | | 460 | | | | | | |
| cgc | aaa | gag | aag | ccg | gca | gac | ccc | gtg | gag | tgg | aca | gtc | atg | gac | gtc | | 1682 |
| Arg | Lys | Glu | Lys | Pro | Ala | Asp | Pro | Val | Glu | Trp | Thr | Val | Met | Asp | Val | | |
| | 465 | | | | | 470 | | | | | 475 | | | | | | |
| gtg | gag | tac | ttc | acc | gag | gcg | ggc | ttc | cct | gag | caa | gcc | acg | gct | ttc | | 1730 |
| Val | Glu | Tyr | Phe | Thr | Glu | Ala | Gly | Phe | Pro | Glu | Gln | Ala | Thr | Ala | Phe | | |
| | 480 | | | | 485 | | | | 490 | | | | | 495 | | | |
| cag | gag | cag | gag | atc | gac | ggc | aag | tcc | ctg | ctg | ctc | atg | cag | cgc | acc | | 1778 |
| Gln | Glu | Gln | Glu | Ile | Asp | Gly | Lys | Ser | Leu | Leu | Leu | Met | Gln | Arg | Thr | | |
| | | | | 500 | | | | | 505 | | | | | 510 | | | |
| gat | gtc | ctc | acc | ggc | ctg | tcc | atc | cgc | ctg | ggg | cca | gcg | ttg | aaa | atc | | 1826 |
| Asp | Val | Leu | Thr | Gly | Leu | Ser | Ile | Arg | Leu | Gly | Pro | Ala | Leu | Lys | Ile | | |
| | | | 515 | | | | | 520 | | | | | 525 | | | | |
| tat | gag | cac | cat | atc | aag | gtg | ctg | cag | cag | ggt | cac | ttc | gag | gac | gat | | 1874 |
| Tyr | Glu | His | His | Ile | Lys | Val | Leu | Gln | Gln | Gly | His | Phe | Glu | Asp | Asp | | |
| | | 530 | | | | | 535 | | | | | 540 | | | | | |
| gac | ccg | gaa | ggc | ttc | ctg | gga | t | gagcacagag | ccgcgcgcgcc | ccttggtcccc | | | | | | | 1926 |
| Asp | Pro | Glu | Gly | Phe | Leu | Gly | | | | | | | | | | | |
| | 545 | | | | | 550 | | | | | | | | | | | |
| acccccaccc | cgcttgacc | cattcctgcc | tccatgtcac | ccaaggtgtc | ccagaggcca | | | | | | | | | | | | 1986 |
| ggagctggac | tgggcaggcg | aggggtgchg | acctaccctg | attotggttag | ggggcgggggc | | | | | | | | | | | | 2046 |
| cttgctgtgc | tcattgctac | ccccccaccc | cgtgtgtgtc | tctgcacctg | cccccagcac | | | | | | | | | | | | 2106 |
| accctcccg | gagcctggat | gtcgccctggg | actctggcct | gctcattttg | cccccagatc | | | | | | | | | | | | 2166 |
| agccccctcc | ctccctcctg | tcccaggaca | ttttttaaaa | gaaaaaaagg | aaaaaaaaaa | | | | | | | | | | | | 2226 |
| attggggagg | gggctgggaa | ggtgccccaa | gatcctcctc | ggcccaacca | ggtgtttatt | | | | | | | | | | | | 2286 |
| cctatatata | tatatatatg | tttgtttctg | cctgtttttc | gttttttggt | gcgtggcctt | | | | | | | | | | | | 2346 |
| tcttcctcc | caccaccact | catggcccca | gcctgtctcg | ccctgtcggc | gggagcagct | | | | | | | | | | | | 2406 |
| tggaatggga | ggagggctgg | acctggggtc | tgtctccac | cctctctccc | gttggttctg | | | | | | | | | | | | 2466 |
| ttgtcgctcc | agctggctgt | attgcttttt | aatattgcac | ogaagggttg | tttttttttt | | | | | | | | | | | | 2526 |
| tttaataaaa | atttttaaaaa | aaggaaaaaaa | aaaaa | | | | | | | | | | | | | | |

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NOVEL LOW DENSITY LIPOPROTEIN BINDING PROTEINS AND THEIR USE IN DIAGNOSING AND TREATING ATHEROSCLEROSIS

Fig. 2 B

asp cys arg ser ser ser asn asn arg Xaa pro lys
gly gly ala ala arg ala gly gly pro ala arg pro
val ser leu arg glu val val arg tyr leu gly gly
ser ser gly ala gly gly arg leu thr arg gly arg
val gln gly leu leu glu glu glu ala ala ala arg
gly arg leu glu arg thr arg leu gly ala leu ala
leu pro arg gly asp arg pro gly arg ala pro pro
ala ala ser ala arg ala ala arg asn lys arg ala
gly glu glu arg val leu glu lys glu glu glu glu
glu glu glu glu asp asp glu asp asp asp asp asp
val val ser glu gly ser glu val pro glu ser asp
arg pro ala gly ala gln his his gln leu asn gly
gly glu arg gly pro gln thr ala lys glu arg ala
lys glu trp ser leu cys gly pro his pro gly gln
glu glu gly arg gly pro ala ala gly ser gly thr
arg gln val phe ser met ala ala leu ser lys glu
gly gly ser ala ser ser thr thr gly pro asp ser
pro ser pro val pro leu pro pro gly lys pro ala
leu pro gly ala asp gly thr pro phe gly cys pro
ala gly arg lys glu lys pro ala asp pro val glu
trp thr val met asp val val glu tyr phe thr glu
ala gly phe pro glu gln ala thr ala phe gln glu
gln glu ile asp gly lys ser leu leu leu met gln
arg thr asp val leu thr gly leu ser ile arg leu
gly pro ala leu lys ile tyr glu his his ile lys
val leu gln gln gly his phe glu asp asp asp pro
glu gly phe leu gly

Fig. 3

ala ser ala arg ala ala arg asn lys arg ala
gly glu glu arg val leu glu lys glu glu glu glu
glu glu glu glu asp asp glu asp asp asp asp
val val ser glu gly ser glu val pro glu ser asp
arg pro ala gly ala gln his his gln leu asn gly
gly glu arg gly pro gln thr ala lys glu arg ala
lys glu trp ser leu cys gly pro his pro gly gln
glu glu gly arg gly pro ala ala gly ser gly thr
arg gln val phe ser met ala ala leu ser lys glu
gly gly ser ala ser ser thr thr gly pro asp ser
pro ser pro val pro leu pro pro gly lys pro ala
leu pro gly ala asp gly thr pro phe gly cys pro
ala gly arg lys glu lys pro ala asp pro val glu
trp thr val met asp val val glu tyr phe thr glu
ala gly phe pro glu gln ala thr ala phe gln glu
gln glu ile asp gly lys ser leu leu leu met gln
arg thr asp val leu thr gly leu ser ile arg leu
gly pro ala leu lys ile tyr glu his his ile lys
val leu gln gln gly his phe glu asp asp asp pro
glu gly phe leu gly

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Fig. 4

thr arg leu gly ala leu ala
leu pro arg gly asp arg pro gly arg ala pro pro
ala ala ser ala arg ala ala arg asn lys arg ala
gly glu glu arg val leu glu lys glu glu glu glu
glu glu glu glu asp asp glu asp asp asp asp asp
val val ser glu gly ser glu val pro glu ser asp
arg pro ala gly ala gln his his gln leu asn **gly**
gly glu arg gly pro gln **thr** ala lys glu arg **ala**
lys glu trp **ser** leu cys gly pro his **pro** gly gln
glu glu gly arg gly pro ala **ala** gly ser gly thr
arg gln val phe ser met ala ala **leu ser** lys glu
gly gly **ser** ala ser **ser thr** thr gly pro asp ser
pro ser pro val pro leu pro pro gly lys pro ala
leu pro gly ala asp gly thr pro phe gly cys pro
ala gly arg lys glu lys pro **ala** asp pro val glu
trp thr val met asp val val glu tyr phe thr glu
ala gly phe pro glu gln ala thr ala phe gln glu
gln glu ile asp gly lys ser leu leu leu met gln
arg thr asp val leu thr gly leu ser ile arg leu
gly pro ala leu lys ile tyr glu his his ile lys
val leu gln gln gly his phe glu asp asp asp pro
glu gly phe leu gly

Fig. 5

met lys asn gln
asp lys lys asn gly ala ala lys gln pro asn pro
lys ser ser pro gly gln pro glu ala gly ala glu
gly ala gln gly arg pro gly arg pro ala pro ala
arg glu ala glu gly ala ser ser gln ala pro gly
arg pro glu gly ala gln ala lys thr ala gln pro
gly ala leu cys asp val ser glu glu leu ser arg
gln leu glu asp ile leu ser thr tyr cys val asp
asn asn gln gly ala pro gly glu asp gly val gln
gly glu pro pro glu pro glu asp ala glu lys ser
arg ala tyr val ala arg asn gly glu pro glu pro
gly thr pro val val asn gly glu lys glu thr ser
lys ala glu pro gly thr glu glu ile arg thr ser
asp glu val gly asp arg asp his arg arg pro gln
glu lys lys lys ala lys gly leu gly lys glu ile
thr leu leu met gln thr leu asn thr leu ser thr
pro glu glu lys leu ala ala leu cys lys lys tyr
ala glu leu leu glu glu his arg asn ser gln lys
gln met lys leu leu gln lys lys gln ser gln leu
val gln glu lys asp his leu arg gly glu his ser
lys ala ile leu ala arg ser lys leu glu ser leu
cys arg glu leu gln arg his asn arg ser leu lys
glu glu gly val gln arg ala arg glu glu glu glu
lys arg lys glu val thr ser his phe gln met thr
leu asn asp ile gln leu gln met glu gln his asn
glu arg asn ser lys leu arg gln glu asn met glu

Fig. 5 (continued)

leu ala glu arg leu lys lys leu ile glu gln tyr
glu leu arg glu glu his ile asp lys val phe lys
his lys asp leu gln gln gln leu val asp ala lys
leu gln gln ala gln glu met leu lys glu ala glu
glu arg his gln arg glu lys asp phe leu leu lys
glu ala val glu ser gln arg met cys glu leu met
lys gln gln glu thr his leu lys gln gln leu ala
leu tyr thr glu lys phe glu glu phe gln asn thr
leu ser lys ser ser glu val phe thr thr phe lys
gln glu met glu lys met thr lys lys ile lys lys
leu glu lys glu thr thr met tyr arg ser arg trp
glu ser ser asn lys ala leu leu glu met ala glu
glu lys thr leu arg asp lys glu leu glu gly leu
gln val lys ile gln arg leu glu lys leu cys arg
ala leu gln thr glu arg asn asp leu asn lys arg
val gln asp leu ser ala gly gly gln gly pro val
ser asp ser gly pro glu arg arg pro glu pro ala
thr thr ser lys glu gln gly val glu gly pro gly
ala gln val pro asn ser pro arg ala thr asp ala
ser cys cys ala gly ala pro ser thr glu ala ser
gly gln thr gly pro gln glu pro thr thr ala thr
ala

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Fig. 6

met ser lys asn thr val ser ser ala
arg phe arg lys val asp val asp glu tyr asp glu
asn lys phe val asp glu glu asp gly gly asp gly
gln ala gly pro asp glu gly glu val asp ser cys
leu arg gln gly asn met thr ala ala leu gln ala
ala leu lys asn pro pro ile asn thr **lys** ser gln
ala val lys asp arg ala gly ser ile val leu lys
val leu ile ser phe lys ala **asn** asp ile glu lys
ala val gln ser leu asp **lys** asn gly val asp leu
leu met lys tyr ile tyr lys gly phe glu ser pro
ser asp asn ser ser ala **met** leu leu gln trp his
glu lys ala leu ala ala gly gly val gly ser ile
val arg val leu thr ala arg lys thr val

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Fig. 7A (1/3)

| | |
|---|-----|
| atg gcg ggg ccc ccg gcc cta ccc ccg ccg gag acg gcg gcg gcc gcc | 48 |
| Met Ala Gly Pro Pro Ala Leu Pro Pro Pro Glu Thr Ala Ala Ala Ala | |
| 1 5 10 15 | |
| acc acg gcg gcc gcc gcc tcg tcg tcc gcc gct tcc ccg cac tac caa | 96 |
| Thr Thr Ala Ala Ala Ala Ser Ser Ser Ala Ala Ser Pro His Tyr Gln | |
| 20 25 30 | |
| gag tgg atc ctg gac acc atc gac tcg ctg cgc tcg cgc aag gcg cgg | 144 |
| Glu Trp Ile Leu Asp Thr Ile Asp Ser Leu Arg Ser Arg Lys Ala Arg | |
| 35 40 45 | |
| ccg gac ctg gag cgc atc tgc ccg atg gtg cgg cgg cgg cac ggc ccg | 192 |
| Pro Asp Leu Glu Arg Ile Cys Arg Met Val Arg Arg Arg His Gly Pro | |
| 50 55 60 | |
| gag ccg gag cgc acg cgc gcc gag ctc gag aaa ctg atc cag cag cgc | 240 |
| Glu Pro Glu Arg Thr Arg Ala Glu Leu Glu Lys Leu Ile Gln Gln Arg | |
| 65 70 75 80 | |
| gcc gtg ctc ccg gtc agc tac aag ggg agc atc tcg tac cgc aac gcg | 288 |
| Ala Val Leu Arg Val Ser Tyr Lys Gly Ser Ile Ser Tyr Arg Asn Ala | |
| 85 90 95 | |
| gcg cgc gtc cag ccg ccc ccg cgc gga gcc acc ccg ccg gcc ccg ccg | 336 |
| Ala Arg Val Gln Pro Pro Arg Arg Gly Ala Thr Pro Pro Ala Pro Pro | |
| 100 105 110 | |
| cgc gcc ccc cgc ggg gcc ccc gcc gcc gcc gcc gcc gcc gcc ccg ccg | 384 |
| Arg Ala Pro Arg Gly Ala Pro Ala Ala Ala Ala Ala Ala Pro Pro | |
| 115 120 125 | |
| ccc acg ccc gcc ccg ccg cca ccg ccc gcg ccc gtc gcc gcc gcc gcc | 432 |
| Pro Thr Pro Ala Pro Pro Pro Pro Pro Ala Pro Val Ala Ala Ala Ala | |
| 130 135 140 | |
| ccg gcc ccg gcg ccc cgc gcg gcc gcc gcc gcc gcc gcc aca gcg ccc ccc | 480 |
| Pro Ala Arg Ala Pro Arg Ala Ala Ala Ala Ala Ala Thr Ala Pro Pro | |
| 145 150 155 160 | |
| tcg cct ggc ccc gcg cag ccg ggc ccc cgc gcg cag ccg gcc gcg ccc | 528 |
| Ser Pro Gly Pro Ala Gln Pro Gly Pro Arg Ala Gln Arg Ala Ala Pro | |
| 165 170 175 | |
| ctg gcc gcg ccg ccg ccc gcg cca gcc gct ccc ccg gcg gtg gcg ccc | 576 |
| Leu Ala Ala Pro Pro Pro Ala Pro Ala Ala Pro Pro Ala Val Ala Pro | |
| 180 185 190 | |
| ccg gcc ggc ccg cgc cgc gcc ccc ccg ccc gcc gtc gcc gcc ccg gag | 624 |
| Pro Ala Gly Pro Arg Arg Ala Pro Pro Pro Ala Val Ala Ala Arg Glu | |
| 195 200 205 | |
| ccg ccg ctg ccg ccg ccg cca cag ccg ccg gcg ccg cca cag cag cag | 672 |
| Pro Pro Leu Pro Pro Pro Pro Gln Pro Pro Ala Pro Pro Gln Gln Gln | |
| 210 215 220 | |

NOVEL LOW DENSITY LIPOPROTEIN BINDING PROTEINS AND THEIR USE IN DIAGNOSING AND TREATING ATHEROSCLEROSIS

Fig. 7A (continued; 2/3)

| | | | | | | | | | | | | | | | | |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|
| cag Gln 225 | ccg Pro | ccg Pro | ccg Pro | ccg Pro | cag Gln 230 | cca Pro | cag Gln | ccg Pro | ccg Pro | ccg Pro | gag Glu | ggg Gly | ggc Gly | gcg Ala | gtg Val 240 | 720 |
| cgg Arg | gcc Ala | ggc Gly | ggc Gly | gcg Ala 245 | gcg Ala | cgg Arg | ccc Pro | gtg Val | agc Ser 250 | ctg Leu | cgg Arg | gaa Glu | gtc Val | gtg Val 255 | cgc Arg | 768 |
| tac Tyr | ctc Leu | ggg Gly | ggc Gly | agc Ser 260 | ggc Gly | ggc Gly | gcc Ala | ggc Gly 265 | ggt Gly | cgc Arg | cta Leu | acc Thr | cgc Arg 270 | ggc Gly | cgc Arg | 816 |
| gtg Val | cag Gln | ggg Gly 275 | ctg Leu | ctg Leu | gag Glu | gag Glu | gag Glu 280 | gcg Ala | gcg Ala | gct Ala | cga Arg | ggc Gly 285 | cgt Arg | ctg Leu | gag Glu | 864 |
| cgc Arg | acc Thr 290 | cgt Arg | ctc Leu | gga Gly | gcg Ala 295 | ctt Leu | gcg Ala | ctg Leu | ccc Pro | cgc Arg | ggg Gly 300 | gac Asp | agg Arg | ccc Pro | gga Gly | 912 |
| cgg Arg 305 | gcg Ala | ccg Pro | ccg Pro | gcc Ala 310 | gcc Ala | agc Ser | gcc Ala | cgc Arg | ccg Pro | tct Ser 315 | cgc Arg | agc Ser | aag Lys | aga Arg | ggt Gly 320 | 960 |
| gga Gly | gaa Glu | gag Glu | cga Arg | gta Val 325 | ctt Leu | gag Glu | aaa Lys | gaa Glu | gag Glu 330 | gaa Glu | gaa Glu | gat Asp | gat Asp | gat Asp 335 | gaa Glu | 1008 |
| gat Asp | gaa Glu | gat Asp | gaa Glu 340 | gaa Glu | gat Asp | gat Asp | gtg Val 345 | tca Ser | gag Glu | ggc Gly | tct Ser | gaa Glu 350 | gtg Val | ccc Pro | gag Glu | 1056 |
| agt Ser | gac Asp | cgt Arg 355 | cct Pro | gca Ala | ggt Gly | gcc Ala | cag Gln 360 | cac His | cac His | cag Gln | ctt Leu | aac Asn 365 | ggc Gly | gag Glu | cgg Arg | 1104 |
| gga Gly | cct Pro 370 | cag Gln | agt Ser | gcc Ala | aag Lys | gag Glu 375 | agg Arg | gtc Val | aag Lys | gag Glu 380 | tgg Trp | acc Thr | ccc Pro | tgc Cys | gga Gly | 1152 |
| ccg Pro 385 | cac His | cag Gln | ggc Gly | cag Gln | gat Asp 390 | gaa Glu | ggg Gly | cgg Arg | ggg Gly | cca Pro 395 | gcc Ala | ccg Pro | ggc Gly | agc Ser | ggc Gly 400 | 1200 |
| acc Thr | cgc Arg | cag Gln | gtg Val | ttc Phe 405 | tcc Ser | atg Met | gca Ala | gcc Ala | atg Met 410 | aac Asn | aag Lys | gaa Glu | ggg Gly | gga Gly 415 | aca Thr | 1248 |
| gct Ala | tct Ser | gtt Val | gcc Ala | acc Thr 420 | ggg Gly | cca Pro | gac Asp | tcc Ser 425 | ccg Pro | tcc Ser | ccc Pro | gtg Val | cct Pro 430 | ttg Leu | ccc Pro | 1296 |
| cca Pro | ggc Gly | aaa Lys 435 | cca Pro | gcc Ala | cta Leu | cct Pro | ggg Gly 440 | gcc Ala | gac Asp | ggg Gly | acc Thr | ccc Pro | ttt Phe | ggc Gly | tgt Cys | 1344 |

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NOVEL LOW DENSITY LIPOPROTEIN BINDING PROTEINS AND THEIR USE IN DIAGNOSING AND TREATING ATHEROSCLEROSIS

Fig. 7A (continued; 3/3)

[illegible]

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NOVEL LOW DENSITY LIPOPROTEIN BINDING PROTEINS
AND THEIR USE IN DIAGNOSING AND TREATING
ATHEROSCLEROSIS

Fig. 7B

glu glu arg val leu glu lys glu glu glu glu **asp**
asp asp glu asp **glu asp glu glu** asp asp val ser
glu gly ser glu val pro glu ser asp arg pro ala
gly ala gln his his gln leu asn gly glu arg gly
pro gln **ser** ala lys glu arg **val** lys glu trp **thr**
pro cys gly pro his **gln** gly gln **asp** glu gly arg
gly pro ala **pro** gly ser gly thr arg gln val phe
ser met ala ala **met asn** lys glu gly gly **thr** ala
ser **val ala** thr gly pro asp ser pro ser pro val
pro leu pro pro gly lys pro ala leu pro gly ala
asp gly thr pro phe gly cys pro **pro** gly arg lys
glu lys pro **ser** asp pro val glu trp thr val met
asp val val glu tyr phe thr glu ala gly phe pro
glu gln ala thr ala phe gln glu gln glu ile asp
gly lys ser leu leu leu met gln arg thr asp val
leu thr gly leu ser ile arg leu gly pro ala leu
lys ile tyr glu his his ile lys val leu gln gln
gly his phe glu asp asp asp pro **asp** gly phe leu
gly

NOVEL LOW DENSITY LIPOPROTEIN BINDING PROTEINS AND THEIR USE IN DIAGNOSING AND TREATING ATHEROSCLEROSIS

Fig. 8A (1/3)

| | | | | | | | | | | | | | | | | |
|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|-------------------|------------------|-------------------|-----|
| atg Met 1 | aag Lys | aac Asn | caa Gln | gac Asp 5 | aaa Lys | aag Lys | aac Asn | ggg Gly | gct Ala 10 | gcc Ala | aaa Lys | caa Gln | tcc Ser | aat Asn 15 | cca Pro | 48 |
| aaa Lys | agc Ser | agc Ser | cca Pro 20 | gga Gly | caa Gln | ccg Pro | gaa Glu | gca Ala 25 | gga Gly | ccc Pro | gag Glu | gga Gly | gcc Ala 30 | cag Gln | gag Glu | 96 |
| cgg Arg | ccc Pro | agc Ser 35 | cag Gln | gcg Ala | gct Ala | cct Pro | gca Ala 40 | gta Val | gaa Glu | gca Ala | gaa Glu | ggt Gly 45 | ccc Pro | ggc Gly | agc Ser | 144 |
| agc Ser | cag Gln 50 | gct Ala | cct Pro | cgg Arg | aag Lys | ccg Pro 55 | gag Glu | ggt Gly | gct Ala | caa Gln | gcc Ala 60 | aga Arg | acg Thr | gct Ala | cag Gln | 192 |
| tct Ser 65 | ggg Gly | gcc Ala | ctt Leu | cgt Arg | gat Asp 70 | gtc Val | tct Ser | gag Glu | gag Glu | ctg Leu 75 | agc Ser | cgc Arg | caa Gln | ctg Leu 80 | gaa Glu | 240 |
| gac Asp | ata Ile | ctg Leu | agc Ser | aca Thr 85 | tac Tyr | tgt Cys | gtg Val | gac Asp 90 | aat Asn | aac Asn | cag Gln | ggg Gly | ggc Gly 95 | ccc Pro | ggc Gly | 288 |
| gag Glu | gat Asp | ggg Gly 100 | gca Ala | cag Gln | ggc Gly | gag Glu | ccg Pro | gct Ala 105 | gaa Glu | ccc Pro | gaa Glu | gat Asp 110 | gca Ala | gag Glu | aag Lys | 336 |
| tcc Ser | cgg Arg | acc Thr 115 | tat Tyr | gtg Val | gca Ala | agg Arg | aat Asn 120 | ggg Gly | gag Glu | cct Pro | gaa Glu | cca Pro 125 | act Thr | cca Pro | gta Val | 384 |
| gtc Val | aat Asn 130 | gga Gly | gag Glu | aag Lys | gaa Glu | ccc Pro 135 | tcc Ser | aag Lys | ggg Gly | gat Asp 140 | cca Pro | aac Asn | aca Thr | gaa Glu | gag Glu | 432 |
| atc Ile 145 | cgg Arg | cag Gln | agt Ser | gac Asp 150 | gag Glu | gtc Val | gga Gly | gac Asp | cga Arg | gac Asp 155 | cat His | cga Arg | agg Arg | cca Pro | cag Gln 160 | 480 |
| gag Glu | aag Lys | aaa Lys | aaa Lys | gcc Ala 165 | aag Lys | ggt Gly | ttg Leu | ggt Gly | aag Lys 170 | gag Glu | atc Ile | acg Thr | ttg Leu 175 | ctg Leu | atg Met | 528 |
| cag Gln | aca Thr | ttg Leu | aat Asn 180 | act Thr | ctg Leu | agt Ser | acc Thr | cca Pro 185 | gag Glu | gag Glu | aag Lys | ctg Leu | gct Ala 190 | gct Ala | ctg Leu | 576 |
| tgc Cys | aag Lys | aag Lys 195 | tat Tyr | gct Ala | gaa Glu | ctg Leu | ctg Leu 200 | gag Glu | gag Glu | cac His | cgg Arg | aat Asn 205 | tca Ser | cag Gln | aag Lys | 624 |

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NOVEL LOW DENSITY LIPOPROTEIN BINDING PROTEINS
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ATHEROSCLEROSIS

Fig. 8A (continued; 2/3)

| | |
|---|------|
| cag atg aag ctc cta cag aaa aag cag agc cag ctg gtg caa gag aag | 672 |
| Gln Met Lys Leu Leu Gln Lys Lys Gln Ser Gln Leu Val Gln Glu Lys | |
| 210 215 220 | |
| gac cac ctg cgc ggt gag cac agc aag gcc gtc ctg gcc cgc agc aag | 720 |
| Asp His Leu Arg Gly Glu His Ser Lys Ala Val Leu Ala Arg Ser Lys | |
| 225 230 235 240 | |
| ctt gag agc cta tgc cgt gag ctg cag cgg cac aac cgc tcc ctc aag | 768 |
| Leu Glu Ser Leu Cys Arg Glu Leu Gln Arg His Asn Arg Ser Leu Lys | |
| 245 250 255 | |
| gaa gaa ggt gtg cag cgg gcc cgg gag gag gag gag aag cgc aag gag | 816 |
| Glu Glu Gly Val Gln Arg Ala Arg Glu Glu Glu Glu Lys Arg Lys Glu | |
| 260 265 270 | |
| gtg acc tcg cac ttc cag gtg aca ctg aat gac att cag ctg cag atg | 864 |
| Val Thr Ser His Phe Gln Val Thr Leu Asn Asp Ile Gln Leu Gln Met | |
| 275 280 285 | |
| gaa cag cac aat gag cgc aac tcc aag ctg cgc caa gag aac atg gag | 912 |
| Glu Gln His Asn Glu Arg Asn Ser Lys Leu Arg Gln Glu Asn Met Glu | |
| 290 295 300 | |
| ctg gct gag agg ctc aag aag ctg att gag cag tat gag ctg cgc gag | 960 |
| Leu Ala Glu Arg Leu Lys Lys Leu Ile Glu Gln Tyr Glu Leu Arg Glu | |
| 305 310 315 320 | |
| gag cat atc gac aaa gtc ttc aaa cac aag gac cta caa cag cag ctg | 1008 |
| Glu His Ile Asp Lys Val Phe Lys His Lys Asp Leu Gln Gln Gln Leu | |
| 325 330 335 | |
| gtg gat gcc aag ctc cag cag gcc cag gag atg cta aag gag gca gaa | 1056 |
| Val Asp Ala Lys Leu Gln Gln Ala Gln Glu Met Leu Lys Glu Ala Glu | |
| 340 345 350 | |
| gag cgg cac cag cgg gag aag gat ttt ctc ctg aaa gag gca gta gag | 1104 |
| Glu Arg His Gln Arg Glu Lys Asp Phe Leu Leu Lys Glu Ala Val Glu | |
| 355 360 365 | |
| tcc cag agg atg tgt gag ctg atg aag cag caa gag acc cac ctg aag | 1152 |
| Ser Gln Arg Met Cys Glu Leu Met Lys Gln Gln Glu Thr His Leu Lys | |
| 370 375 380 | |
| caa cag ctt gcc cta tac aca gag aag ttt gag gag ttc cag aac aca | 1200 |
| Gln Gln Leu Ala Leu Tyr Thr Glu Lys Phe Glu Glu Phe Gln Asn Thr | |
| 385 390 395 400 | |
| ctt tcc aaa agc agc gag gta ttc acc aca ttc aag cag gag atg gaa | 1248 |
| Leu Ser Lys Ser Ser Glu Val Phe Thr Thr Phe Lys Gln Glu Met Glu | |
| 405 410 415 | |

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NOVEL LOW DENSITY LIPOPROTEIN BINDING PROTEINS
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Fig. 8A (continued; 3/3)

| | |
|---|------|
| aag atg act aag aag atc aag aag ctg gag aaa gaa acc acc atg tac | 1296 |
| Lys Met Thr Lys Lys Ile Lys Lys Leu Glu Lys Glu Thr Thr Met Tyr | |
| 420 425 430 | |
| cgg tcc cgg tgg gag agc agc aac aag gcc ctg ctt gag atg gct gag | 1344 |
| Arg Ser Arg Trp Glu Ser Ser Asn Lys Ala Leu Leu Glu Met Ala Glu | |
| 435 440 445 | |
| gag aaa aca gtc cgg gat aaa gaa ctg gag ggc ctg cag gta aaa atc | 1392 |
| Glu Lys Thr Val Arg Asp Lys Glu Leu Glu Gly Leu Gln Val Lys Ile | |
| 450 455 460 | |
| caa cgg ctg gag aag ctg tgc cgg gca ctg cag aca gag cgc aat gac | 1440 |
| Gln Arg Leu Glu Lys Leu Cys Arg Ala Leu Gln Thr Glu Arg Asn Asp | |
| 465 470 475 480 | |
| ctg aac aag agg gta cag gac ctg agt gct ggt ggc cag ggc tcc ctc | 1488 |
| Leu Asn Lys Arg Val Gln Asp Leu Ser Ala Gly Gly Gln Gly Ser Leu | |
| 485 490 495 | |
| act gac agt ggc cct gag agg agg cca gag ggg cct ggg gct caa gca | 1536 |
| Thr Asp Ser Gly Pro Glu Arg Arg Pro Glu Gly Pro Gly Ala Gln Ala | |
| 500 505 510 | |
| ccc agc tcc ccc agg gtc aca gaa gcg cct tgc tac cca gga gca ccg | 1584 |
| Pro Ser Ser Pro Arg Val Thr Glu Ala Pro Cys Tyr Pro Gly Ala Pro | |
| 515 520 525 | |
| agc aca gaa gca tca ggc cag act ggg cct caa gag ccc acc tcc gcc | 1632 |
| Ser Thr Glu Ala Ser Gly Gln Thr Gly Pro Gln Glu Pro Thr Ser Ala | |
| 530 535 540 | |
| agg gcc | 1638 |
| Arg Ala | |
| 545 | |

Fig. 8 B

lys ser ser pro gly gln pro glu ala gly pro glu gly ala
gln glu arg pro ser gln ala ala pro ala val glu ala glu gly
pro gly ser ser gln ala pro arg lys pro glu gly ala gln ala
arg thr ala gln ser gly ala leu arg asp val ser glu glu leu
ser arg gln leu glu asp ile leu ser thr tyr cys val asp asn
asn gln gly gly pro gly glu asp gly ala gln gly glu pro ala
glu pro glu asp ala glu lys ser arg thr tyr val ala arg asn
gly glu pro glu pro thr pro val val tyr gly glu lys glu pro
ser lys gly asp pro asn thr glu glu ile arg gln ser asp glu
val gly asp arg asp his arg arg pro gln glu lys lys lys ala
lys gly leu gly lys glu ile thr leu leu met gln thr leu asn
thr leu ser thr pro glu glu lys leu ala ala leu cys lys lys
tyr ala glu leu leu glu glu his arg asn ser gln lys gln met
lys leu leu gln lys lys gln ser gln leu val gln glu lys asp
his leu arg gly glu his ser lys ala val leu ala arg ser lys
leu glu ser leu cys arg glu leu gln arg his asn arg ser leu
lys glu glu gly val gln arg ala arg glu glu glu glu lys arg
lys glu val thr ser his phe gln val thr leu asn asp ile gln
leu gln met glu gln his asn glu arg asn ser lys leu arg gln
glu asn met glu leu ala glu arg leu lys lys leu ile glu gln
tyr glu leu arg glu glu his ile asp lys val phe lys his lys
asp leu gln gln gln leu val asp ala lys leu gln gln ala gln
glu met leu lys glu ala glu glu arg his gln arg glu lys asp
phe leu leu lys glu ala val glu ser gln arg met cys glu leu
met lys gln gln glu thr his leu lys gln gln leu ala leu tyr
thr glu lys phe glu glu phe gln asn thr leu ser lys ser ser

Fig. 8 B (continued)

glu val phe thr thr phe lys gln glu met glu lys met thr lys
lys ile lys lys leu glu lys glu thr thr met tyr arg ser arg
trp glu ser ser asn lys ala leu leu glu met ala glu glu lys
thr **val** arg asp lys glu leu glu gly leu gln val lys ile gln
arg leu glu lys leu cys arg ala leu gln thr glu arg asn asp
leu asn lys arg val gln asp leu ser ala gly gly gln gly **ser**
leu thr asp ser gly pro glu arg arg pro glu gly pro gly ala
gln ala pro **ser** ser pro arg **val** thr **glu** ala **pro** cys tyr pro
gly ala pro ser thr glu ala ser gly gln thr gly pro gln glu
pro thr **ser** ala **arg** ala ***

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ATHEROSCLEROSIS

Fig. 9

val asp val asp

glu tyr asp glu asn lys phe val asp glu glu asp

gly gly asp gly

[illegible]

Fig. 10

1 AAG CCT CGC AGC GGT CGG GGC GGC GCC GCG GAG GCT
37 CGA GGG CGG CGG GCG GCG GCG ATG TCG AAG AAC ACG
met ser lys asn thr

73 GTG TCG TCG GCG CGG TTC CGG AAG GTG GAC GTG GAT
val ser ser ala arg phe arg lys val asp val asp

109 GAG TAC GAC GAG AAC AAG TTC GTG GAC GAG GAA GAC
glu tyr asp glu asn lys phe val asp glu glu asp

145 GGC GGC GAC GGC CAG GCG GGG CCG GAC GAG GGC GAG
gly gly asp gly gln ala gly pro asp glu gly glu

181 GTG GAC TCG TGC CTG CGG CAA GGG AAC ATG ACA GCC
val asp ser cys leu arg gln gly asn met thr ala

217 GCC CTG CAG GCG GCG CTG AAG AAC CCT CCC ATC AAC
ala leu gln ala ala leu lys asn pro pro ile asn

253 ACC AGG AGC CAG GCG GTG AAG GAC CGG GCA GGC AGC
thr **arg** ser gln ala val lys asp arg ala gly ser

289 ATC GTG CTG AAG GTG CTC ATC TCC TTC AAG GCC GGC
ile val leu lys val leu ile ser phe lys ala **gly**

325 GAC ATA GAA AAG GCC GTG CAG TCC CTG GAC AGG AAC
asp ile glu lys ala val gln ser leu asp **arg** asn

361 GGC GTG GAC CTG CTC ATG AAG TAC ATC TAC AAG GGC
gly val asp leu leu met lys tyr ile tyr lys gly

397 TTC GAG AGC CCC TCC GAC AAC AGC AGC GCC GTG CTC
phe glu ser pro ser asp asn ser ser ala **val** leu

433 CTG CAG TGG CAC GAG AAG GCG CTG GCT GCA GGA GGA
leu gln trp his glu lys ala leu ala ala gly gly

469 GTG GGC TCC ATC GTC CGT GTC CTG ACT GCA AGG AAA
val gly ser ile val arg val leu thr ala arg lys

505 ACC GTG TAG CCT GGC AGG AAC GGG TGC CTG CCG GGG
thr val

NOVEL LOW DENSITY LIPOPROTEIN BINDING PROTEINS
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Fig. 10 (continued)

541 AGC GGG AGC TGC CGG TAC AAA GAC CAA AAC GCC CAG
577 ATG CCG CCG CTG CCC TGT GGG CGG CGT CTG TTC CCA
613 GCT TCG CTT TTT CCC TTT CCC GTG TCT GTC AGG ATT
649 ACA TAA GGT TTC CCT TCG TGA GAA TCG GAG TGG CGC
685 AGA GGG TCC TGT TCA TAC GCG CCG TGC GTC CGG CTG
721 TGT AAG ACC CCT GCC TTC AGT GTC CTT GAG CAA CGG
757 TAG CGT GTC GCC GGC TGG GTT TGG TTT TGT CGT GGA
793 GGG ATC TGG TCA GAA TTT GAG GCC AGT TTC CTA ACT
829 CAT TGC TGG TCA GGA AAT GAT CTT CAT TTA AAA AAA
865 AAA AAA AGA CTG GCA GCT ATT ATG CAA AAC TGG ACC
901 CTC TTC CCT TAT TTA AGC AGA GTG AGT TTC TGG AAC
937 CAG TGG TGC CCC CCC CCC CGC CCC GGC CGC CGT CCT
973 GCT CAA GGG AAG CCT CCC TGC AGA GCA GCA GAG CCC
1009 CTG GGC AGG AGC GCC GCG TCC CGC TCC CAG GAG ACA
1045 GCA TGC GCG GTC ACG CGG CAC TTC CTG TGC CTC CCA
1081 GCC CCA GTG CCC CGG AGT TCT TCA GGG CGA CAG GGA
1117 CCT CAG AAG ACT GGA TCC GAT CCA GAC AGA CGC CCA
1153 TTC TTG GTT CAG CTC AGT GTT TTC AAA AGG AAC GTG
1189 CTA CCG TGG GTA GAG CAC ACT GGT TCT CAG AAC ACG
1225 GCC GGC GCT TGA CGG TTG TCA CAG CTC CAG AAC AAA
1261 TCC TGG GAG ACA GGC GAG CGC GAG TCG CCG GGC AGG
1297 AAT TCC ACA CAC TCG TGC TGT TTT TGA TAC CTG CTT
1333 TTT GTT TTG TTT TGT AAA AAT GAT GCA CTT GAG AAA
1369 ATA AAA CGT CAG TGT TGA CAA AAA AAA AAA AAA

Fig. 11

1 GAC TGC CGC AGC AGC AGC AAC AAC CGC TAG CCG AAG
asp cys arg ser ser ser asn asn arg Xaa pro lys

37 GGT GGC GCG GCG CGG GCC GGC GGC CCG GCG CGG CCC
gly gly ala ala arg ala gly gly pro ala arg pro

73 GTG AGC CTG CGG GAA GTC GTG CGC TAC CTC GGG GGT
val ser leu arg glu val val arg tyr leu gly gly

109 AGC AGC GGC GCT GGC GGC CGC CTG ACC CGC GGC CGC
ser ser gly ala gly gly arg leu thr arg gly arg

145 GTG CAG GGT CTG CTG GAA GAG GAG GCG GCG GCG CGG
val gln gly leu leu glu glu glu ala ala ala arg

181 GGC CGC CTG GAG CGC ACC CGT CTC GGA GCG CTT GCG
gly arg leu glu arg thr arg leu gly ala leu ala

217 CTG CCC CGC GGG GAC AGG CCC GGA CGG GCG CCA CCG
leu pro arg gly asp arg pro gly arg ala pro pro

253 GCC GCC AGC GCC CGC GCG GCG CGG AAC AAG AGA GCT
ala ala ser ala arg ala ala arg asn lys arg ala

289 GGC GAG GAG CGA GTG CTT GAA AAG GAG GAG GAG GAG
gly glu glu arg val leu glu lys glu glu glu glu

325 GAG GAG GAG GAA GAC GAC GAG GAC GAC GAC GAC GAC
glu glu glu glu asp **asp glu asp asp** asp asp **asp**

361 GTC GTG TCC GAG GGC TCG GAG GTG CCC GAG AGC GAT
val val ser glu gly ser glu val pro glu ser asp

397 CGT CCC GCG GGT GCG CAG CAT CAC CAG CTG AAT GGC
arg pro ala gly ala gln his his gln leu asn **gly**

433 GGC GAG CGC GGC CCG CAG ACC GCC AAG GAG CGG GCC
gly glu arg gly pro gln **thr** ala lys glu arg **ala**

469 AAG GAG TGG TCG CTG TGT GGC CCC CAC CCT GGC CAG
lys glu trp **ser leu** cys gly pro his **pro** gly gln

Fig. 11 (continued)

505 GAG GAA GGG CGG GGG CCG GCC GCG GGC AGT GGC ACC
glu glu gly arg gly pro ala ala gly ser gly thr

541 CGC CAG GTG TTC TCC ATG GCG GCC TTG AGT AAG GAG
arg gln val phe ser met ala ala leu ser lys glu

577 GGG GGA TCA GCC TCT TCG ACC ACC GGG CCT GAC TCC
gly gly ser ala ser ser thr thr gly pro asp ser

613 CCG TCC CCG GTG CCT TTG CCC CCC GGG AAG CCA GCC
pro ser pro val pro leu pro pro gly lys pro ala

649 CTC CCA GGA GCC GAT GGG ACC CCC TTT GGC TGC CCT
leu pro gly ala asp gly thr pro phe gly cys pro

685 GCC GGG CGC AAA GAG AAG CCG GCA GAC CCC GTG GAG
ala gly arg lys glu lys pro ala asp pro val glu

721 TGG ACA GTC ATG GAC GTC GTG GAG TAC TTC ACC GAG
trp thr val met asp val val glu tyr phe thr glu

757 GCG GGC TTC CCT GAG CAA GCC ACG GCT TTC CAG GAG
ala gly phe pro glu gln ala thr ala phe gln glu

793 CAG GAG ATC GAC GGC AAG TCC CTG CTG CTC ATG CAG
gln glu ile asp gly lys ser leu leu leu met gln

829 CGC ACC GAT GTC CTC ACC GGC CTG TCC ATC CGC CTG
arg thr asp val leu thr gly leu ser ile arg leu

865 GGG CCA GCG TTG AAA ATC TAT GAG CAC CAT ATC AAG
gly pro ala leu lys ile tyr glu his his ile lys

901 GTG CTG CAG CAG GGT CAC TTC GAG GAC GAT GAC CCG
val leu gln gln gly his phe glu asp asp asp pro

937 GAA GGC TTC CTG GGA TGA GCA CAG AGC CGC CGC GCC
glu gly phe leu gly

973 CCT TGT CCC CAC CCC CAC CCC GCC TGG ACC CAT TCC

1009 TGC CTC CAT GTC ACC CAA GGT GTC CCA GAG GCC AGG

1045 AGC TGG ACT GGG CAG GCG AGG GGT GCG GAC CTA CCC

1081 TGA TTC TGG TAG GGG GCG GGG CCT TGC TGT GCT CAT

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Fig. 11 (continued)

| | | | | | | | | | | | | |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1117 | TGC | TAC | CCC | CCC | ACC | CCG | TGT | GTG | TCT | CTG | CAC | CTG |
| 1153 | CCC | CCA | GCA | CAC | CCC | TCC | CGG | AGC | CTG | GAT | GTC | GCC |
| 1189 | TGG | GAC | TCT | GGC | CTG | CTC | ATT | TTG | CCC | CCA | GAT | CAG |
| 1225 | CCC | CCT | CCC | TCC | CTC | CTG | TCC | CAG | GAC | ATT | TTT | TAA |
| 1261 | AAG | AAA | AAA | AGG | AAA | AAA | AAA | AAT | TGG | GGA | GGG | GGC |
| 1297 | TGG | GAA | GGT | GCC | CCA | AGA | TCC | TCC | TCG | GCC | CAA | CCA |
| 1333 | GGT | GTT | TAT | TCC | TAT | ATA | TAT | ATA | TAT | ATG | TTT | TGT |
| 1369 | TCT | GCC | TGT | TTT | TCG | TTT | TTT | GGT | GCG | TGG | CCT | TTC |
| 1405 | TTC | CCT | CCC | ACC | ACC | ACT | CAT | GGC | CCC | AGC | CCT | GCT |
| 1441 | CGC | CCT | GTC | GGC | GGG | AGC | AGC | TGG | GAA | TGG | GAG | GAG |
| 1477 | GGT | GGG | ACC | TTG | GGT | CTG | TCT | CCC | ACC | CTC | TCT | CCC |
| 1513 | GTT | GGT | TCT | GTT | GTC | GCT | CCA | GCT | GGC | TGT | ATT | GCT |
| 1549 | TTT | TAA | TAT | TGC | ACC | GAA | GGG | TTG | TTT | TTT | TTT | TTT |
| 1585 | TAA | ATA | AAA | TTT | TAA | AAA | AAG | GAA | AAA | AAA | AAA | AAA |

Fig. 12

256 GCC AGC GCC CGC GCG GCG CGG AAC AAG AGA GCT
 ala ser ala arg ala ala arg asn lys arg ala

289 GGC GAG GAG CGA GTG CTT GAA AAG GAG GAG GAG GAG
 gly glu glu arg val leu glu lys glu glu glu glu

325 GAG GAG GAG GAA GAC GAC GAG GAC GAC GAC GAC GAC
 glu glu glu glu asp **asp glu asp asp** asp asp **asp**

361 GTC GTG TCC GAG GGC TCG GAG GTG CCC GAG AGC GAT
 val val ser glu gly ser glu val pro glu ser asp

397 CGT CCC GCG GGT GCG CAG CAT CAC CAG CTG AAT GGC
 arg pro ala gly ala gln his his gln leu asn **gly**

433 GGC GAG CGC GGC CCG CAG ACC GCC AAG GAG CGG GCC
 gly glu arg gly pro gln **thr** ala lys glu arg **ala**

469 AAG GAG TGG TCG CTG TGT GGC CCC CAC CCT GGC CAG
 lys glu trp **ser leu** cys gly pro his **pro** gly gln

505 GAG GAA GGG CGG GGG CCG GCC GCG GGC AGT GGC ACC
 glu glu gly arg gly pro ala **ala** gly ser gly thr

541 CGC CAG GTG TTC TCC ATG GCG GCC TTG AGT AAG GAG
 arg gln val phe ser met ala ala **leu ser** lys glu

577 GGG GGA TCA GCC TCT TCG ACC ACC GGG CCT GAC TCC
 gly gly **ser** ala ser **ser thr** thr gly pro asp ser

613 CCG TCC CCG GTG CCT TTG CCC CCC GGG AAG CCA GCC
 pro ser pro val pro leu pro pro gly lys pro ala

649 CTC CCA GGA GCC GAT GGG ACC CCC TTT GGC TGC CCT
 leu pro gly ala asp gly thr pro phe gly cys pro

685 GCC GGG CGC AAA GAG AAG CCG GCA GAC CCC GTG GAG
 ala gly arg lys glu lys pro **ala** asp pro val glu

721 TGG ACA GTC ATG GAC GTC GTG GAG TAC TTC ACC GAG
 trp thr val met asp val val glu tyr phe thr glu

Fig. 12 (continued)

757 GCG GGC TTC CCT GAG CAA GCC ACG GCT TTC CAG GAG
 ala gly phe pro glu gln ala thr ala phe gln glu

 793 CAG GAG ATC GAC GGC AAG TCC CTG CTG CTC ATG CAG
 gln glu ile asp gly lys ser leu leu leu met gln

 829 CGC ACC GAT GTC CTC ACC GGC CTG TCC ATC CGC CTG
 arg thr asp val leu thr gly leu ser ile arg leu

 865 GGG CCA GCG TTG AAA ATC TAT GAG CAC CAT ATC AAG
 gly pro ala leu lys ile tyr glu his his ile lys

 901 GTG CTG CAG CAG GGT CAC TTC GAG GAC GAT GAC CCG
 val leu gln gln gly his phe glu asp asp asp pro

 937 GAA GGC TTC CTG GGA TGA GCA CAG AGC CGC CGC GCC
glu gly phe leu gly

 973 CCT TGT CCC CAC CCC CAC CCC GCC TGG ACC CAT TCC
 1009 TGC CTC CAT GTC ACC CAA GGT GTC CCA GAG GCC AGG
 1045 AGC TGG ACT GGG CAG GCG AGG GGT GCG GAC CTA CCC
 1081 TGA TTC TGG TAG GGG GCG GGG CCT TGC TGT GCT CAT
 1117 TGC TAC CCC CCC ACC CCG TGT GTG TCT CTG CAC CTG
 1153 CCC CCA GCA CAC CCC TCC CGG AGC CTG GAT GTC GCC
 1189 TGG GAC TCT GGC CTG CTC ATT TTG CCC CCA GAT CAG
 1225 CCC CCT CCC TCC CTC CTG TCC CAG GAC ATT TTT TAA
 1261 AAG AAA AAA AGG AAA AAA AAA AAT TGG GGA GGG GGC
 1297 TGG GAA GGT GCC CCA AGA TCC TCC TCG GCC CAA CCA
 1333 GGT GTT TAT TCC TAT ATA TAT ATA TAT ATG TTT TGT
 1369 TCT GCC TGT TTT TCG TTT TTT GGT GCG TGG CCT TTC
 1405 TTC CCT CCC ACC ACC ACT CAT GGC CCC AGC CCT GCT
 1441 CGC CCT GTC GGC GGG AGC AGC TGG GAA TGG GAG GAG
 1477 GGT GGG ACC TTG GGT CTG TCT CCC ACC CTC TCT CCC
 1513 GTT GGT TCT GTT GTC GCT CCA GCT GGC TGT ATT GCT
 1549 TTT TAA TAT TGC ACC GAA GGG TTG TTT TTT TTT TTT
 1585 TAA ATA AAA TTT TAA AAA AAG GAA AAA AAA AAA

Fig. 13

196 ACC CGT CTC GGA GCG CTT GCG
thr arg leu gly ala leu ala

217 CTG CCC CGC GGG GAC AGG CCC GGA CGG GCG CCA CCG
leu pro arg gly asp arg pro gly arg ala pro pro

253 GCC GCC AGC GCC CGC GCG GCG CGG AAC AAG AGA GCT
ala ala ser ala arg ala ala arg asn lys arg ala

289 GGC GAG GAG CGA GTG CTT GAA AAG GAG GAG GAG GAG
gly glu glu arg val leu glu lys glu glu glu glu

325 GAG GAG GAG GAA GAC GAC GAG GAC GAC GAC GAC GAC
glu glu glu glu asp **asp glu asp asp** asp asp **asp**

361 GTC GTG TCC GAG GGC TCG GAG GTG CCC GAG AGC GAT
val val ser glu gly ser glu val pro glu ser asp

397 CGT CCC GCG GGT GCG CAG CAT CAC CAG CTG AAT GGC
arg pro ala gly ala gln his his gln leu asn **gly**

433 GGC GAG CGC GGC CCG CAG ACC GCC AAG GAG CGG GCC
gly glu arg gly pro gln **thr** ala lys glu arg **ala**

469 AAG GAG TGG TCG CTG TGT GGC CCC CAC CCT GGC CAG
lys glu trp **ser leu** cys gly pro his **pro** gly gln

505 GAG GAA GGG CGG GGG CCG GCC GCG GGC AGT GGC ACC
glu glu gly arg gly pro ala **ala** gly ser gly thr

541 CGC CAG GTG TTC TCC ATG GCG GCC TTG AGT AAG GAG
arg gln val phe ser met ala ala **leu ser** lys glu

577 GGG GGA TCA GCC TCT TCG ACC ACC GGG CCT GAC TCC
gly gly **ser** ala ser **ser thr** thr gly pro asp ser

613 CCG TCC CCG GTG CCT TTG CCC CCC GGG AAG CCA GCC
pro ser pro val pro leu pro pro gly lys pro ala

649 CTC CCA GGA GCC GAT GGG ACC CCC TTT GGC TGC CCT
leu pro gly ala asp gly thr pro phe gly cys pro

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NOVEL LOW DENSITY LIPOPROTEIN BINDING PROTEINS
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Fig. 13 (continued)

685 GCC GGG CGC AAA GAG AAG CCG GCA GAC CCC GTG GAG
ala gly arg lys glu lys pro ala asp pro val glu

721 TGG ACA GTC ATG GAC GTC GTG GAG TAC TTC ACC GAG
trp thr val met asp val val glu tyr phe thr glu

757 GCG GGC TTC CCT GAG CAA GCC ACG GCT TTC CAG GAG
ala gly phe pro glu gln ala thr ala phe gln glu

793 CAG GAG ATC GAC GGC AAG TCC CTG CTG CTC ATG CAG
gln glu ile asp gly lys ser leu leu leu met gln

829 CGC ACC GAT GTC CTC ACC GGC CTG TCC ATC CGC CTG
arg thr asp val leu thr gly leu ser ile arg leu

865 GGG CCA GCG TTG AAA ATC TAT GAG CAC CAT ATC AAG
gly pro ala leu lys ile tyr glu his his ile lys

901 GTG CTG CAG CAG GGT CAC TTC GAG GAC GAT GAC CCG
val leu gln gln gly his phe glu asp asp asp pro

937 GAA GGC TTC CTG GGA TGA GCA CAG AGC CGC CGC GCC
glu gly phe leu gly

973 CCT TGT CCC CAC CCC CAC CCC GCC TGG ACC CAT TCC

1009 TGC CTC CAT GTC ACC CAA GGT GTC CCA GAG GCC AGG

1045 AGC TGG ACT GGG CAG GCG AGG GGT GCG GAC CTA CCC

1081 TGA TTC TGG TAG GGG GCG GGG CCT TGC TGT GCT CAT

1117 TGC TAC CCC CCC ACC CCG TGT GTG TCT CTG CAC CTG

1153 CCC CCA GCA CAC CCC TCC CGG AGC CTG GAT GTC GCC

1189 TGG GAC TCT GGC CTG CTC ATT TTG CCC CCA GAT CAG

1225 CCC CCT CCC TCC CTC CTG TCC CAG GAC ATT TTT TAA

1261 AAG AAA AAA AGG AAA AAA AAA AAT TGG GGA GGG GGC

1297 TGG GAA GGT GCC CCA AGA TCC TCC TCG GCC CAA CCA

1333 GGT GTT TAT TCC TAT ATA TAT ATA TAT ATG TTT TGT

1369 TCT GCC TGT TTT TCG TTT TTT GGT GCG TGG CCT TTC

1405 TTC CCT CCC ACC ACC ACT CAT GGC CCC AGC CCT GCT

1441 CGC CCT GTC GGC GGG AGC AGC TGG GAA TGG GAG GAG

1477 GGT GGG ACC TTG GGT CTG TCT CCC ACC CTC TCT CCC

1513 GTT GGT TCT GTT GTC GCT CCA GCT GGC TGT ATT GCT

1549 TTT TAA TAT TGC ACC GAA GGG TTG TTT TTT TTT TTT

1585 TAA ATA AAA TTT TAA AAA AAG GAA AAA AAA AAA

Fig. 14

1 GTG GAA AAT AGC AAC TGT GTT TCT CAA GGA TCC AAT
37 CCC AAC CTA AGG TGG CAG CGC ACA ATG AAG AAT CAA
met lys asn gln

73 GAC AAA AAG AAC GGG GCT GCC AAA CAG CCC AAC CCC
asp lys lys asn gly ala ala lys gln pro asn pro

109 AAA AGC AGC CCG GGA CAG CCG GAA GCA GGA GCG GAG
lys ser ser pro gly gln pro glu ala gly ala glu

145 GGA GCC CAG GGG CGG CCC GGC CGG CCG GCC CCC GCC
gly ala gln gly arg pro gly arg pro ala pro ala

181 CGA GAA GCC GAA GGT GCC AGC AGC CAG GCT CCC GGG
arg glu ala glu gly ala ser ser gln ala pro gly

217 AGG CCG GAG GGG GCT CAA GCC AAA ACT GCT CAG CCT
arg pro glu gly ala gln ala lys thr ala gln pro

253 GGG GCG CTC TGT GAT GTC TCT GAG GAG CTG AGC CGC
gly ala leu cys asp val ser glu glu leu ser arg

289 CAG TTG GAA GAC ATA CTC AGT ACA TAC TGT GTG GAC
gln leu glu asp ile leu ser thr tyr cys val asp

325 AAC AAC CAG GGG GCC CCG GGT GAG GAT GGG GTC CAG
asn asn gln gly ala pro gly glu asp gly val gln

361 GGT GAG CCC CCT GAA CCT GAA GAT GCA GAG AAG TCT
gly glu pro pro glu pro glu asp ala glu lys ser

397 CGC GCC TAT GTG GCA AGG AAT GGG GAG CCG GAG CCG
arg ala tyr val ala arg asn gly glu pro glu pro

433 GGC ACC CCA GTA GTC AAT GGC GAG AAG GAG ACC TCC
gly thr pro val val asn gly glu lys glu thr ser

469 AAG GCA GAG CCG GGC ACG GAA GAG ATC CGG ACG AGC
lys ala glu pro gly thr glu glu ile arg thr ser

505 GAT GAG GTC GGA GAC CGA GAC CAC CGG AGG CCA CAG
asp glu val gly asp arg asp his arg arg pro gln

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Fig. 14 (continued)

541 GAA AAG AAG AAG GCC AAG GGT CTG GGA AAG GAG ATC
glu lys lys lys ala lys gly leu gly lys glu ile

577 ACG CTG CTG ATG CAG ACA CTG AAC ACG CTG AGC ACC
thr leu leu met gln thr leu asn thr leu ser thr

613 CCA GAG GAG AAG CTG GCG GCT CTG TGC AAG AAG TAT
pro glu glu lys leu ala ala leu cys lys lys tyr

649 GCG GAA CTG CTC GAG GAG CAC CGG AAC TCG CAG AAG
ala glu leu leu glu glu his arg asn ser gln lys

685 CAG ATG AAG CTG CTG CAG AAG AAG CAG AGC CAG CTG
gln met lys leu leu gln lys lys gln ser gln leu

721 GTG CAG GAG AAG GAC CAC CTG CGT GGC GAG CAC AGC
val gln glu lys asp his leu arg gly glu his ser

757 AAG GCC ATC CTG GCC CGC AGC AAG CTC GAG AGC CTG
lys ala ile leu ala arg ser lys leu glu ser leu

793 TGC CGG GAG CTG CAG CGG CAC AAC CGC TCG CTC AAG
cys arg glu leu gln arg his asn arg ser leu lys

829 GAA GAA GGT GTG CAG CGA GCC CGA GAG GAG GAG GAG
glu glu gly val gln arg ala arg glu glu glu glu

865 AAG CGC AAG GAG GTG ACG TCA CAC TTC CAG ATG ACG
lys arg lys glu val thr ser his phe gln met thr

901 CTC AAC GAC ATT CAG CTG CAG ATG GAG CAG CAC AAC
leu asn asp ile gln leu gln met glu gln his asn

937 GAG CGC AAC TCC AAG CTG CGC CAG GAG AAC ATG GAG
glu arg asn ser lys leu arg gln glu asn met glu

973 CTG GCC GAG CGG CTC AAG AAG CTG ATT GAG CAG TAC
leu ala glu arg leu lys lys leu ile glu gln tyr

1009 GAG CTG CGA GAA GAG CAC ATC GAC AAA GTC TTC AAA
glu leu arg glu glu his ile asp lys val phe lys

Fig. 14 (continued)

1045 CAC AAG GAT CTG CAG CAG CAG CTG GTG GAC GCC AAG
his lys asp leu gln gln gln leu val asp ala lys

1081 CTC CAG CAG GCC CAG GAG ATG CTG AAG GAG GCA GAG
leu gln gln ala gln glu met leu lys glu ala glu

1117 GAG CGG CAC CAG CGG GAG AAG GAC TTT CTC CTG AAG
glu arg his gln arg glu lys asp phe leu leu lys

1153 GAG GCC GTG GAG TCC CAG AGG ATG TGC GAG CTG ATG
glu ala val glu ser gln arg met cys glu leu met

1189 AAG CAA CAG GAG ACC CAC CTG AAG CAG CAG CTT GCC
lys gln gln glu thr his leu lys gln gln leu ala

1225 CTA TAC ACA GAG AAG TTT GAG GAG TTC CAG AAC ACT
leu tyr thr glu lys phe glu glu phe gln asn thr

1261 CTT TCC AAA AGC AGC GAG GTG TTC ACC ACA TTC AAA
leu ser lys ser ser glu val phe thr thr phe lys

1297 CAG GAA ATG GAA AAG ATG ACA AAG AAG ATC AAG AAG
gln glu met glu lys met thr lys lys ile lys lys

1333 CTG GAG AAA GAG ACC ACC ATG TAC CGT TCC CGG TGG
leu glu lys glu thr thr met tyr arg ser arg trp

1369 GAG AGC AGC AAC AAG GCC CTG CTT GAG ATG GCT GAG
glu ser ser asn lys ala leu leu glu met ala glu

1405 GAG AAA ACA CTC CGG GAC AAA GAG CTG GAA GGC CTG
glu lys thr leu arg asp lys glu leu glu gly leu

1441 CAG GTG AAA ATC CAG CGG CTG GAG AAG CTG TGC CGG
gln val lys ile gln arg leu glu lys leu cys arg

1477 GCA CTG CAG ACA GAG CGC AAT GAC CTG AAC AAG AGG
ala leu gln thr glu arg asn asp leu asn lys arg

1513 GTG CAG GAC CTG AGT GCC GGT GGC CAG GGC CCC GTC
val gln asp leu ser ala gly gly gln gly pro val

Applicant(s): Ann M. Lees et al.

NOVEL LOW DENSITY LIPOPROTEIN BINDING PROTEINS
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ATHEROSCLEROSIS

Fig. 14 (continued)

1549 TCC GAC AGC GGT CCT GAG CGG AGG CCA GAG CCC GCC
ser asp ser gly pro glu arg arg pro **glu pro ala**
 1585 ACC ACC TCC AAG GAG CAG GGT GTC GAG GGC CCC GGG
thr thr ser lys glu gln gly val glu gly pro gly
 1621 GCT CAA GTA CCC AAC TCT CCA AGG GCC ACA GAC GCT
 ala gln **val** pro **asn** ser pro arg **ala** thr **asp** ala
 1657 TCC TGC TGC GCA GGT GCA CCC AGC ACA GAG GCA TCA
ser cys **cys ala** gly ala pro ser thr glu ala ser
 1693 GGC CAG ACA GGG CCC CAG GAG CCC ACC ACT GCC ACT
 gly gln thr gly pro gln glu pro thr **thr** ala **thr**
 1729 GCC TAG AGA GCT TGG TGC TGG GGT GTG CCA GGA AGG
 ala
 1765 GAG CAG GCA GCC CAG CCA GGC CTG GCC CAG CCC AGG
 1801 CTC CCA TGC TAA GCA GTC CGG TGC TGA GGC CAG GAT
 1837 GTT CTG ACC TGG CTG GCA CCT GAC CCT CTG CAG TCT
 1873 TGG ATT TTG TGG GTC AGT TTT ACA TGC ATA TGG CAC
 1909 ACA TGC AAG GCC TCA CAC ATT TGT GTC TCT AAG TGT
 1945 ACT GTG GGC TTG CAT CGG GGG TGA CGA TGG ACA GAT
 1981 GAA GCC AGC GGC TCC CTT GTG AGC TGA AGT CTT ACG
 2017 GAG GAG ACG GCG TCT GCA CTG CCA TCG CAG TGA CCT
 2053 GCA GGA CGA GTT CCT TGA GCT TTC CCT GCC TGC TTT
 2089 GAG GCT GAG ACC CCT CCC GGC CCT TCA GAG CTC CTG
 2125 ACA GGT GAT ACA CAC CCA GCC TTG ACC GCA CTT CTC
 2161 TTG GGT AGC TGG GCT CTC CTA GCC TCC CCC AGA GGC
 2197 GCC ATT GCT TCT CTT GAC TTG GAG AGG GGA TGC CCA
 2233 GGC GTG GCC TTG GCA GGC ACT GGG AGC TAG TGA TTG
 2269 GGC TGC TCT CCT GCC TCG AGC AGG GGC AGG AGT GTT
 2305 TCT GGT GGG ATG ATG CGC TCG CTG GTC AGG AGC CCC
 2341 GTG GGC GCT GCT TCC CCC GCC CTC TGG TGA TGC CAG
 2377 GAC CAG GCC AGT GAT GCT TCT CAG TAG CCT TAC CAT
 2413 TCA CAG GTG CCT CTC CAG CCC GCA CAG TGA GTG ACA
 2449 AGA TCA TCC AAA GGA TTC CTT CTG AAG GTG TTC GTT
 2485 TCG TTT TGT TTT GTT GCA CGT GAC GGT TTG TAT TGA
 2521 GGA CCC TCT GAG GAA GAG GGG TGC TGT AGC AGT GGT
 2557 CCC TGC GTG CCT GGC TCC AGT GTC CTG CCC TCC CCC
 2593 CCC TCG CCA TGG CTC CTC GGC CGC CTT GGT GCT GAG
 2629 GTT TCT GTT TGG TGA GAT CAG GTT GTC TGT TCA GAG

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Applicant(s): Ann M. Lees et al.

NOVEL LOW DENSITY LIPOPROTEIN BINDING PROTEINS
AND THEIR USE IN DIAGNOSING AND TREATING
ATHEROSCLEROSIS

Fig. 14 (continued)

2665 AGA AGA GGC GTC TGA TGG CTT TGC CGC CAG CTT GCC
2701 TGC GGG CCT CAA TCC CGG GAG GCC GCC CGG TTC CCG
2737 TCA CTG TTG TCC CCG TGC AGT GCG TTG CTG GTC CCC
2773 AGG ACC AGC TGC TCG TTT GCT GTA TGG GTC AGT TTC
2809 TGC TTC CTG CCC CCC ACT CCA CCT AAC TGC AAT CCT
2845 TGG GGT TTC CCT GGT TCT CGT CCC TGG TAC CTC TGT
2881 GCC CAA GAA GTA GCC TTC TTT GGG ATT CTT GTT CTG
2917 CCC ATG CGG GAG CTG CTG CTG TCT GAC AGG TGA GGC
2953 CTG AGA CTC AGC GGC TGA CAG AGC TGC AGA GCT CTG
2989 CAC GGT GGC TCC CGG GGC GGC CTC TGT GTG CTG CAC
3025 ACC GCT GCT CTG CTG GCA CTG GCC AGT CTG TGC AGA
3061 GCA TTT GAG TAC TGG CTC AGG AGG GAG GGC TCT GCT
3097 GGC CTC GAG GGA CAG CGC CAC GTC TCC AGC TGG GCT
3133 CAG GGA GAG CCC CAG ACT GGC TGC GTA GGG TGC TTG
3169 GGG TTT GCT TCT TGC AGT ATT TCT TGG AAG CTG TTT
3205 TGT TGT CCT GCT ATT CCT TCA TCT TCC ACA GTC CAC
3241 GCT CAG CCT TTA ACT TGG ATC CCT CAC ATA ACA GGG
3277 TTC ATG AGA CCC GCA AGT ACG CCC AAG CTA CGT ATG
3313 GCT GAG GCC AGC TGG CAG GTG AAT GGC ACG CCA TTG
3349 CTG CTG CTA ATC CCT GGC ATA TCT TTA GTT CAC CTC
3385 GAA ATG CCC CCG CCA CAG TGC AAG CAG TGA GTC CAC
3421 GTG CCA CCC TGG GCT GAA TCC CAC CCC CTG TGA GTG
3457 TTG CCC GAG ATT GTG TCT CTT CTG AAT GCC TTC ACT
3493 GGG AAT GGC CTC TGC CGC CTC CTG CTC AGG GAG GCT
3529 TTC CCC TTC CCT CAG CCC CTG TGC CAG ACT GAG GTA
3565 CAA GAA CCG CCA AGC CCA TGC AAG GTG TGG CTA GGC
3601 GCC AGG GTG CAG GAA GGA GGC AGG TAG CTG CCT GCA
3637 CCC TTG AAA GCC AAG AGG CCT ACG GTG GCC TCC ATC
3673 CTG GCT TGC CTC ACT TCA GCT ACC TCG CAT AGC CCA
3709 GGG GTG GGG CTA TTG GAT TCC AGG GTG GGG GGA TGG
3745 GAA GCT GCA GGG GGC AGG TGG CTC TCA CTA GGC TTC
3781 CCA GCT CAG GAA TGT GGG CCT CAG GTA GGG GAG AGC
3817 CTT TGC TCC ACT CCA CCC ATT TGC AGG CAT CTA GGC
3853 CAG TCT AGA TGG CGA CCC CTT CTC TTC CTC TCC ATT
3889 GAC CAA ATC GTA CCT GTC TCT CCA GCT GCT CGC TTG
3925 CTC TGC TTT CCA AAG TCA GCC CAG GTA CCC AGG TGC
3961 CGC CCA CAT TGG CCT GGA ACC TGG ACC AGA GGC AAG
3997 GGA GGT GGC CTA TCC TTG AGT GAT AGC CAG TGC CTT
4033 CCT CAC CCG GTG GCT TCC ATG CCT GTG ACC TCA GAT
4069 TTA GGA CCA AGA GCT GTG TTG GTT TCT TAC GTT GTG
4105 AGC TTT CCC TCC AGG GGA CCA CAG CAG GTG AGG CTC
4141 GGA GCC CAG AGC CCT TGG CGC CGC CAG CAG TAA CTT
4177 GTG TCC GGA CCT TGT CCA GCT GAG CGC TTC GTG TAT

NOVEL LOW DENSITY LIPOPROTEIN BINDING PROTEINS AND THEIR USE IN DIAGNOSING AND TREATING ATHEROSCLEROSIS

Fig. 14 (continued)

[illegible]

Fig. 15

1 GAC GCC TCA GAG CGG AAC AGG GAA GTG AAT CAG GCG
37 CCG GGT AGT GGG TTG CTG GGC TGG GCT TGC TGA GGT
73 AGA GGC AGC GCC AAG AAG AGG CCT TTG CCG CTG GTC
109 GGG ATT GGG ATG TCG AAG AAC ACA GTG TCG TCG GCC
met ser lys asn thr val ser ser ala
145 CGC TTC CGG AAG GTG GAC GTG GAT GAA TAT GAC GAG
arg phe arg lys val asp val asp glu tyr asp glu
181 AAC AAG TTC GTG GAC GAA GAA GAT GGG GGC GAC GGC
asn lys phe val asp glu glu asp gly gly asp gly
217 CAG GCC GGG CCC GAC GAG GGC GAG GTG GAC TCC TGC
gln ala gly pro asp glu gly glu val asp ser cys
253 CTG CGG CAA GGA AAC ATG ACA GCT GCC CTA CAG GCA
leu arg gln gly asn met thr ala ala leu gln ala
289 GCT CTG AAG AAC CCC CCT ATC AAC ACC AAG AGT CAG
ala leu lys asn pro pro ile asn thr **lys** ser gln
325 GCA GTG AAG GAC CGG GCA GGC AGC ATT GTC TTG AAG
ala val lys asp arg ala gly ser ile val leu lys
361 GTG CTC ATC TCT TTT AAA GCT AAT GAT ATA GAA AAG
val leu ile ser phe lys ala **asn** asp ile glu lys
397 GCA GTT CAA TCT CTG GAC AAG AAT GGT GTG GAT CTC
ala val gln ser leu asp **lys** asn gly val asp leu
433 CTA ATG AAG TAT ATT TAT AAA GGA TTT GAG AGC CCG
leu met lys tyr ile tyr lys gly phe glu ser pro
469 TCT GAC AAT AGC AGT GCT ATG TTA CTG CAA TGG CAT
ser asp asn ser ser ala **met** leu leu gln trp his
505 GAA AAG GCA CTT GCT GCT GGA GGA GTA GGG TCC ATT
glu lys ala leu ala ala gly gly val gly ser ile
541 GTT CGT GTC TTG ACT GCA AGA AAA ACT GTG TAG TCT
val arg val leu thr ala arg lys thr val

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Applicant(s): Ann M. Lees et al

NOVEL LOW DENSITY LIPOPROTEIN BINDING PROTEINS
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ATHEROSCLEROSIS

Fig. 15 (continued)

577 GGC AGG AAG TGG ATT ATC TGC CTC GGG AGT GGG AAT
613 TGC TGG TAC AAA GAC CAA AAC AAC CAA ATG CCA CCG
649 CTG CCC TGT GGG TAG CAT CTG TTT CTC TCA GCT TTG
685 CCT TCT TGC TTT TTC ATA TCT GTA AAG AAA AAA ATT
721 ACA TAT CAG TTG TCC CTT TAA TGA AAA TTG GGA TAA
757 TAT AGA AGA AAT TGT GTT AAA ATA GAA GTG TTT CAT
793 CCT TTC AAA ACC ATT TCA GTG ATG TTT ATA CCA ATC
829 TGT ATA TAG TAT AAT TTA CAT TCA AGT TTT AAT TGT
865 GCA ACT TTT AAC CCT GTT GGC TGG TTT TTG GTT CTG
901 TTT GGT TTT GTA TTA TTT TTA ACT AAT ACT GAA AAA
937 TTT GGT CAG AAT TTG AGG CCA GTT TCC TAG CTC ATT
973 GCT AGT CAG GAA ATG ATA TTT ATA AAA AAT ATG AGA
1009 GAC TGG CAG CTA TTA ACA TTG CAA AAC TGG ACC ATA
1045 TTT CCC TTA TTT AAT AAG CAA AAT ATG TTT TTG GAA
1081 TAA GTG GTG GGT GAA TAC CAC TGC TAA GTT ATA GCT
1117 TTG TTT TTG CTT GCC TCC TCA TTA TCT GTA CTG TGG
1153 GTT TAA GTA TGC TAC TTT CTC TCA GCA TCC AAT AAT
1189 CAT GGC CCC TCA ATT TAT TTG TGG TCA CGC AGG GTT
1225 CAG AGC AAG AAG TCT TGC TTT ATA CAA ATG TAT CCA
1261 TAA AAT ATC AGA GCT TGT TGG GCA TGA ACA TCA AAC
1297 TTT TGT TCC ACT AAT ATG GCT CTG TTT GGA AAA AAC
1333 TGC AAA TCA GAA AGA ATG ATT TGC AGA AAG AAA GAA
1369 AAA CTA TGG TGT AAT TTA AAC TCT GGG CAG CCT CTG
1405 AAT GAA ATG CTA CTT TCT TTA GAA ATA TAA TAG CTG
1441 CCT TAG ACA TTA TGA GGT ATA CAA CTA GTA TTT AAG
1477 ATA CCA TTT AAT ATG CCC CGT AAA TGT CTT CAG TGT
1513 TCT TCA GGG TAG TTG GGA TCT CAA AAG ATT TGG TTC
1549 AGA TCC AAA CAA ATA CAC ATT CTG TGT TTT AGC TCA
1585 GTG TTT TCT AAA AAA AGA AAC TGC CAC ACA GCA AAA
1621 AAT TGT TTA CTT TGT TGG ACA AAC CAA ATC AGT TCT
1657 CAA AAA ATG ACC GGT GCT TAT AAA AAG TTA TAA ATA
1693 TCG AGT AGC TCT AAA ACA AAC CAC CTG ACC AAG AGG
1729 GAA GTG AGC TTG TGC TTA GTA TTT ACA TTG GAT GCC
1765 AGT TTT GTA ATC ACT GAC TTA TGT GCA AAC TGG TGC
1801 AGA AAT TCT ATA AAC TCT TTG CTG TTT TTG ATA CCT
1837 GCT TTT TGT TTC ATT TTG TTT TGT TTT GTA AAA ATG
1873 ATA AAA CTT CAG AAA ATA AAA TGT CAG TGT TGA ATA
1909 ATT AAA AAA AAA AAA AA

Fig. 16

1 GAA GAG CGA GTA CTT GAG AAA GAA GAG GAA GAA GAT
glu glu arg val leu glu lys glu glu glu glu **asp**

37 GAT GAT GAA GAT GAA GAT GAA GAA GAT GAT GTG TCA
asp asp glu asp **glu asp glu glu** asp asp val ser

73 GAG GGC TCT GAA GTG CCC GAG AGT GAC CGT CCT GCA
glu gly ser glu val pro glu ser asp arg pro ala

109 GGT GCC CAG CAC CAC CAG CTT AAC GGC GAG CGG GGA
gly ala gln his his gln leu asn gly glu arg gly

145 CCT CAG AGT GCC AAG GAG AGG GTC AAG GAG TGG ACC
pro gln **ser** ala lys glu arg **val** lys glu trp **thr**

181 CCC TGC GGA CCG CAC CAG GGC CAG GAT GAA GGG CGG
pro cys gly pro his **gln** gly gln **asp** glu gly arg

217 GGG CCA GCC CCG GGC AGC GGC ACC CGC CAG GTG TTC
gly pro ala **pro** gly ser gly thr arg gln val phe

253 TCC ATG GCA GCC ATG AAC AAG GAA GGG GGA ACA GCT
ser met ala ala **met asn** lys glu gly gly **thr** ala

289 TCT GTT GCC ACC GGG CCA GAC TCC CCG TCC CCC GTG
ser **val ala** thr gly pro asp ser pro ser pro val

325 CCT TTG CCC CCA GGC AAA CCA GCC CTA CCT GGG GCC
pro leu pro pro gly lys pro ala leu pro gly ala

361 GAC GGG ACC CCC TTT GGC TGT CCT CCC GGG CGC AAA
asp gly thr pro phe gly cys pro **pro** gly arg lys

397 GAG AAG CCA TCT GAT CCC GTC GAG TGG ACC GTG ATG
glu lys pro **ser** asp pro val glu trp thr val met

433 GAT GTC GTC GAA TAT TTT ACT GAG GCT GGA TTC CCG
asp val val glu tyr phe thr glu ala gly phe pro

469 GAG CAG GCG ACA GCT TTC CAA GAG CAG GAA ATT GAT
glu gln ala thr ala phe gln glu gln glu ile asp

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ATHEROSCLEROSIS

Fig. 16 (continued)

505 GGC AAA TCT TTG CTG CTC ATG CAG CGC ACA GAT GTG
gly lys ser leu leu leu met gln arg thr asp val

541 CTC ACC GGC CTG TCC ATC CGC CTC GGG CCA GCC CTG
leu thr gly leu ser ile arg leu gly pro ala leu

577 AAA ATC TAC GAG CAC CAC ATC AAG GTG CTT CAG CAA
lys ile tyr glu his his ile lys val leu gln gln

613 GGC CAC TTT GAG GAT GAT GAC CCC GAT GGC TTC TTA
gly his phe glu asp asp asp pro **asp** gly phe leu

649 GGC TGA GCG CCC AGC CTC ACC CCT GCC CCA GCC CAT
gly

685 TCC GGC CCC CAT CTC ACC CAA GAT CCC CCA GAG TCC

721 AGG AGC TGG ACG GGG ACA CCC TCA GCC CTC ATA ACA

757 GAT TCC AAG GAG AGG GCA CCC TCT TGT CCT TAT CTT

793 TGC CCC TTG TNT CTG TCT CAC ACA CAT CTG CTC CTC

829 AGC ACG TCG GTG TGG GGA GGG GAT TGC TCC TTA AAC

865 CCC AGG TGG CTG ACC CTC CCC ACC CAG TCC AGG ACA

901 TTT TAG GAA AAA AAA AAT GAA ATG TGG GGG GCT TCT

937 CAT CTC CCC AAG ATC CTC TTC CGT TCA GCC AGA TGT

973 TTC CTG TAT AAA TGT TTG GAT CTG CCT GTT TAT TTT

1009 GGT GGG TGG TCT TTC CTC CCT CCC CTA CCA CCC ATG

1045 CCC CCC TTC TCA GTC TGC CCC TGG CCT CCA GCC CCT

1081 AGG GGA CTA GCT GGG TTG GGG TTC CTC GGG CCT TTT

1117 CTC TCC TCC CTC TTT TCT TTC TGT TGA TTG TCG CTC

1153 CAG CTG GCT GTA TTG CTT TTT AAT ATT GCA CCG AAG

1189 GTT TTT TAA ATA AAA TTT TA

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Fig. 17

1 CA AAA AGC AGC CCA GGA CAA CCG GAA GCA GGA CCC GAG GGA GCC
lys ser ser pro gly gln pro glu ala gly **pro** glu gly ala

45 CAG GAG CGG CCC AGC CAG GCG GCT CCT GCA GTA GAA GCA GAA GGT
gln **glu** arg pro **ser** gln ala ala pro ala **val** glu ala glu gly

90 CCC GGC AGC AGC CAG GCT CCT CGG AAG CCG GAG GGG GCT CAA GCC
pro **gly** ser ser gln ala pro **arg** **lys** pro glu gly ala gln ala

135 AGA ACG GCT CAG TCT GGG GCC CTT CGT GAT GTC TCT GAG GAG CTG
arg thr ala gln **ser** gly ala leu **arg** asp val ser glu glu leu

180 AGC CGC CAA CTG GAA GAC ATA CTG AGC ACA TAC TGT GTG GAC AAT
ser arg gln leu glu asp ile leu ser thr tyr cys val asp asn

225 AAC CAG GGG GGC CCC GGC GAG GAT GGG GCA CAG GGT GAG CCG GCT
asn gln gly **gly** pro gly glu asp gly **ala** gln gly glu pro **ala**

270 GAA CCC GAA GAT GCA GAG AAG TCC CGG ACC TAT GTG GCA AGG AAT
glu pro glu asp ala glu lys ser arg **thr** tyr val ala arg asn

315 GGG GAG CCT GAA CCA ACT CCA GTA GTC TAT GGA GAG AAG GAA CCC
gly glu pro glu pro thr pro val val **tyr** gly glu lys glu **pro**

360 TCC AAG GGG GAT CCA AAC ACA GAA GAG ATC CGG CAG AGT GAC GAG
ser lys **gly** **asp** pro **asn** thr glu glu ile arg **gln** ser asp glu

405 GTC GGA GAC CGA GAC CAT CGA AGG CCA CAG GAG AAG AAA AAA GCC
val gly asp arg asp his arg arg pro gln glu lys lys lys ala

450 AAG GGT TTG GGG AAG GAG ATC ACG TTG CTG ATG CAG ACA TTG AAT
lys gly leu gly lys glu ile thr leu leu met gln thr leu asn

495 ACT CTG AGT ACC CCA GAG GAG AAG CTG GCT GCT CTG TGC AAG AAG
thr leu ser thr pro glu glu lys leu ala ala leu cys lys lys

540 TAT GCT GAA CTG CTG GAG GAG CAC CGG AAT TCA CAG AAG CAG ATG
tyr ala glu leu leu glu glu his arg asn ser gln lys gln met

585 AAG CTC CTA CAG AAA AAG CAG AGC CAG CTG GTG CAA GAG AAG GAC
lys leu leu gln lys lys gln ser gln leu val gln glu lys asp

630 CAC CTG CGC GGT GAG CAC AGC AAG GCC GTC CTG GCC CGC AGC AAG
his leu arg gly glu his ser lys ala **val** leu ala arg ser lys

675 CTT GAG AGC CTA TGC CGT GAG CTG CAG CGG CAC AAC CGC TCC CTC
leu glu ser leu cys arg glu leu gln arg his asn arg ser leu

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Fig. 17 (continued)

720 AAG GAA GAA GGT GTG CAG CGG GCC CGG GAG GAG GAG GAG AAG CGC
lys glu glu gly val gln arg ala arg glu glu glu glu lys arg

765 AAG GAG GTG ACC TCG CAC TTC CAG GTG ACA CTG AAT GAC ATT CAG
lys glu val thr ser his phe gln val thr leu asn asp ile gln

810 CTG CAG ATG GAA CAG CAC AAT GAG CGC AAC TCC AAG CTG CGC CAA
leu gln met glu gln his asn glu arg asn ser lys leu arg gln

855 GAG AAC ATG GAG CTG GCT GAG AGG CTC AAG AAG CTG ATT GAG CAG
glu asn met glu leu ala glu arg leu lys lys leu ile glu gln

900 TAT GAG CTG CGC GAG GAG CAT ATC GAC AAA GTC TTC AAA CAC AAG
tyr glu leu arg glu glu his ile asp lys val phe lys his lys

945 GAC CTA CAA CAG CAG CTG GTG GAT GCC AAG CTC CAG CAG GCC CAG
asp leu gln gln gln leu val asp ala lys leu gln gln ala gln

990 GAG ATG CTA AAG GAG GCA GAA GAG CGG CAC CAG CGG GAG AAG GAT
glu met leu lys glu ala glu glu arg his gln arg glu lys asp

1035 TTT CTC CTG AAA GAG GCA GTA GAG TCC CAG AGG ATG TGT GAG CTG
phe leu leu lys glu ala val glu ser gln arg met cys glu leu

1080 ATG AAG CAG CAA GAG ACC CAC CTG AAG CAA CAG CTT GCC CTA TAC
met lys gln gln glu thr his leu lys gln gln leu ala leu tyr

1125 ACA GAG AAG TTT GAG GAG TTC CAG AAC ACA CTT TCC AAA AGC AGC
thr glu lys phe glu glu phe gln asn thr leu ser lys ser ser

1170 GAG GTA TTC ACC ACA TTC AAG CAG GAG ATG GAA AAG ATG ACT AAG
glu val phe thr thr phe lys gln glu met glu lys met thr lys

1215 AAG ATC AAG AAG CTG GAG AAA GAA ACC ACC ATG TAC CGG TCC CGG
lys ile lys lys leu glu lys glu thr thr met tyr arg ser arg

1260 TGG GAG AGC AGC AAC AAG GCC CTG CTT GAG ATG GCT GAG GAG AAA
trp glu ser ser asn lys ala leu leu glu met ala glu glu lys

1305 ACA GTC CGG GAT AAA GAA CTG GAG GGC CTG CAG GTA AAA ATC CAA
thr val arg asp lys glu leu glu gly leu gln val lys ile gln

1350 CGG CTG GAG AAG CTG TGC CGG GCA CTG CAG ACA GAG CGC AAT GAC
arg leu glu lys leu cys arg ala leu gln thr glu arg asn asp

1395 CTG AAC AAG AGG GTA CAG GAC CTG AGT GCT GGT GGC CAG GGC TCC
leu asn lys arg val gln asp leu ser ala gly gly gln gly ser

1440 CTC ACT GAC AGT GGC CCT GAG AGG AGG CCA GAG GGG CCT GGG GCT
leu thr asp ser gly pro glu arg arg pro glu gly pro gly ala

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Fig. 17 (continued)

1485 CAA GCA CCC AGC TCC CCC AGG GTC ACA GAA GCG CCT TGC TAC CCA
 gln ala pro ser ser pro arg val thr glu ala pro cys tyr pro

 1530 GGA GCA CCG AGC ACA GAA GCA TCA GGC CAG ACT GGG CCT CAA GAG
 gly ala pro ser thr glu ala ser gly gln thr gly pro gln glu

 1575 CCC ACC TCC GCC AGG GCC TAG AGA GCC TGG TGT TGG GTC ATG CTG
 pro thr ser ala arg ala ***

 1620 GGA AGG GAG CGG CAG CCC AGC CAG GCC TGG CCC ATA AAA GGC TCC
 1665 CAT GCT GAG CAG CCC ATT GCT GAA GCC AGG ATG TTC TTG ACC TGG
 1710 CTG GCA TCT GGC ACT TGC AAT TTT GGA TTT TGT GGG TCA GTT TTA
 1755 CGT ACA TAG GGC ATT TTG CAA GGC CTT GCA AAT GCA TTT ATA CCT
 1800 GTA AGT GTA CAG TGG GCT TGC ATT GGG GAT GGG GGT GTG TAC AGA
 1845 TGA AGT CAG TGG CTT GTC TGT GAG CTG AAG AGT CTT GAG AGG GGC
 1890 TGT CAT CTG TAG CTG CCA TCA CAG TGA GTT GGC AGA AGT GAC TTG
 1935 AGC ATT TCT CTG TCT GAT TTG AGG CTC AGA CCC CTC CCT GCC CTT
 1980 TCA GAG CTC AAA ACA AGT AAT ACA CCA AGG TCT TGA CTG CAT TTG
 2025 TCT TGT GAG CAG GGC TTG CTT GGT CAG CTC AGG CCC TCC TAG CTG
 2070 CTT GGA GGC TCC TTT GAT TCT CTA GAC CTG GAA AAG GTG TCC CTA
 2115 GGC AGA GCC CTG GCA GGG CGC TCA GAG CTG GGA TTT CCT GCC TGG
 2160 AAC AAG GGA CCT GGA GAA TGT TTT TGC GTG GGA TGA TGT GCT GGT
 2205 CAG GAG CCC CTT GGG CAT CGC TTC CCC TGC CCT TTG GTA GTG CCA
 2250 GGA CCA GGC CAA TGA TGC TTC TCA GTA GCC TTA TCA TTC ACA GGT
 2295 GCC TCT CTA GCC TGC ACA AAT GAT TGA CAA GAG ATC ACC CAA AGG
 2340 ATT ATT TCT GAA GGT GTT TTT TTC TTT ATT TCT TTT TCT TTT TTT
 2385 TTT TTT CTT TTT CTT TTT TTT TTG CAC ATG ACA GTG TTT GTA TTG
 2430 AGG ACC TTC CAA GGA AAA GGG ATG CTG TAC CAG TGG TGC CTG GGT
 2475 GCC TGG CCT CCA GTG TCC CAC CTC CTT CAC CAC CCC ACT TGG CTC
 2520 CTT TGC CAT CTT GAT GCT GAG GTT TCC TGT TTG GTG AGA TCA GGT
 2565 TGT TTG TGG TAA AAG AAA GGA AAG GGC TTC TGA TGG CTT TGC CAC
 2610 AAG CTT ACC TGT GGG TTT CAG TCC TGA GAG GCC ACC ACC AGT TCC
 2655 CAT CAG CAC TGT CTC CAT GCA GCA GTT GCT GGG TCC CAT GTC CAG
 2700 CTG CCT CTT TGG CTT CAT GGG TTT TTC TGC TTC CTG CCC CCA CCC
 2745 CCA CAT GTG CAA TCC TCA AGA TTT GTC CTG ATT CTA TTT CCT GGC
 2790 ACC TCC CTG CCT GTC CTT GGG GAT TCT ACT TCT TCC TGT GTG GGG
 2835 CCC ATA GCT GTT GTC TAA CAG GTA AGA AAT GAA ATT GAA CTA TTG
 2880 ACT GGG CCC CAG AAA TCC ATA AAA TGG CTG CAG ACA GTT GTT TCT
 2925 GTG TCC TGT TCT ACC CCC ACT CCA GTA CAT AAC TAC TAT GTA CTG
 2970 TGT AGA GCC ATT CTA TAT GCT GAA TGT TCT GCT GTT GCA AAC TTG
 3015 CCA GGG TAT TAG CCA GTG TTT GTG CCA AGC AGT TTT CGG GGA CAA
 3060 CAG AAT GAC TCA GAC CAA GAT GGA TAG GAT GGT TAG GGC TTT GCT
 3105 TCT TGC TGT TTT TCT TTG AAC TAG TCA TTG TCC TGC AGG TCC CTT
 3150 CAT CTT CCA TAC CTA GCC CAC TCT TTT AGC CCT TAC CTT AAA TCT
 3195 CTC AGA TAA GTT GGT TCA CAA AGA ATG TTA AGT ACT GAA TCA TGT
 3240 GTG ACT GAG ACC AGA GAT GGC AAA TGA ATG GCA CAC CAT TTC TCC
 3285 TTC TCC TGC CCC AGG GCA GGT ACC ACT GAT CTG CAT CAG AGT TGC
 3330 CTG CTA TTC TCT GGT GTA TCC TTC ACA TCT AGG TGC CCT CAA GCA
 3375 GCT GTG TGA GTG TTG AGA TCT CTG CCA TCT CTG GCT GAG ATA CTG
 3420 CTG TCC TGT GAA GTG TTT CCC ATG ACC TTT TTC TTC CCC TTT GAA
 3465 TCC CTC TTG TCT GGA GTA GTC CTT GCC TTC TTC TTG CTC CAG TAG

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Fig. 17 (continued)

3510 GCC TTT TCC TTA CCC CAG CCC TTG TGC CAG GCT AAG CTG GTA CAA
3555 GAG CTG CCA ACT CAC AGA GTT TTG CTA GGC GAG AGA GGT GCA GGG
3600 AAG AGG CAG AGG TAT GCA CCT TCC CCC TTG AAG AGA GGG GAA AGG
3645 CCT ACA GTG GCC CAC ATA ATT GCC TGA CTC ACA CTT CAG CTA CCT
3690 CTT AAT GCC TGT GGA GGG ACT GGA GCT GCT GGA TCC CAG TGT GGT
3735 GGT GTA GGA GGC CAC AGT GAG CAG GTG GCC CCA GCT GGG TTT CCC
3780 AGG TCA GGA ATG TGG GCC CCA GGC AAG GTG CAG CCT TTG CTC ACA
3825 GCT CCA TCC ATG TCT AGA CCT TCA GGC CAG TCT GCA GAT GAG GTT
3870 CCC TAC CTT TTT CTT CTC TTC ATT GAC CAA ATC AAC CAA TCA CTA
3915 CAG CTG CTC TGC TTC TGC TTT CCA AAG TAG CCC AGG TCC TGG GCC
3960 AGA TGC AGG GGA GGT GCC TAT CCA TGA GTG AAG GCC AGT GTC TTC
4005 CTC ACC TGG GTG GTC CCA CAC TTG TGA CCC TCA GTT TTA GGA CCC
4050 AAG ATC TGT GTT GGT TTC TTA GAT TGC TAG CTT TTC CTC CAG GGG
4095 ACC ACA GCA GGT GAA GCT CAA GAG CGC ATG GCT CTG CTA ATA GTA
4140 AAT TGT TTT CAG GGC CTT GTC CAG CTG AGA GCT TCA TGT CCA CCA
4185 GAT TCT GAG AGG TGT CAG CAG CAC TTT TTT TTT TTA TTT GTT GTT
4230 TGT TTT CCA TGA GGT TAT CGG ACC ATG GGC TGA GCT CAG GCA CTT
4275 TCT GTA GGA GAC TGT TAT TTC TGT AAA GAT GGT TAT TTA ACC CTC
4320 CTC CAC CCC ATC ACG GTG GCC CTG AGG GCT GAC CCG GAG GCC AGT
4365 GGA GCT GCC TGG TGT CCA CGG GGG AGG GCC AAG GCC TGC TGA GCT
4410 GAT TCT CCA GCT GCT GCC CCA GCC TTT CCG CCT TGC ACA GCA CAG
4455 AGG TGG TCA CCC CAG GGA CAG CCA GGC ACC TGC TCC TCT TGC CCT
4500 TCC TGG GGG AAA GGA GCT GCC TTC TGT CCC TGT AAC TGC TTT CCT
4545 TAT GGC CCA ACC CGG CCA CTC AGA CTT GTT TGA AGC TGC ACT GGC
4590 AGC TTT TTT GTC TCC TTT GGG TAT TCA CAA CAG CCA GGG ACT TGA
4635 TTT TGA TGT ATT TTA AAC CAC ATT AAA TAA AGA GTC TGT TGC CTT
4680 AAA AAA AAA AAA AAA AAA

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Fig. 18

GTG GAC GTG GAT GAG TAC GAC GAG AAC AAG TTC GTG
val asp val asp glu tyr asp glu asn lys phe val

GAC GAG GAA GAC GGC GGC GAC GGC
asp glu glu asp gly gly asp gly

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NOVEL LOW DENSITY LIPOPROTEIN BINDING PROTEINS AND THEIR USE IN DIAGNOSING AND TREATING ATHEROSCLEROSIS

Fig. 19

| | | | | | |
|--------|------------|------------|------------|------------|------------|
| | 1 | | | | 50 |
| Rabbit | MSKNTVSSAR | FRKVDVDEYD | ENKFDVEEDG | GDGQAGPDEG | EVDSCLRQGN |
| Human | ..... | ..... | ..... | ..... | ..... |
| | 51 | | | | 100 |
| Rabbit | MTAALQAALK | NPPINTRSQA | VKDRAGSIVL | KVLISFKAGD | IEKAVQSLDR |
| Human | ..... | .....K... | ..... | .....N. |K |
| | 101 | | | | 150 |
| Rabbit | NGVDLLMKYI | YKGFESPSDN | SSAVLLQWHE | KALAAGGVGS | IVRVLTARKT |
| Human | | | ...M..... | | |
| | 151 | | | | |
| Rabbit | V | | | | |
| Human | . | | | | |

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Fig. 20

| | | | |
|--------|-------------|------------|----------------------------------|
| | 1 | | 50 |
| Rabbit | EERVLEKEEEE | EEEEEDDEDD | DDDVVSEGSE VPESDRPAGA QHHQLNGGER |
| Human | ..... | .DDD..EDEE | ...-..... -.... |
| | 51 | | 100 |
| Rabbit | GPQTAKERAK | EWSLCGPHPG | QEEGRGPAAG SGTRQVFSMA ALSKEGGSAS |
| Human | ...S....V. | ..TP....Q. | .D.....P. .... .MN....T.. |
| | 101 | | 150 |
| Rabbit | STTGPDSPSP | VPLPPGKPAL | PGADGTPFGC PAGRKEKPAD PVEWTVMDVV |
| Human | VA..... | ..... | ..... .P.....S. |
| | 151 | | 200 |
| Rabbit | EYFTEAGFPE | QATAFQEQEI | DGKSLLLMQR TDVLTGLSIR LGPALKIYEH |
| Human | ..... | ..... | ..... |
| | 201 | 220 | |
| Rabbit | HIKVLQQGHF | EDDDPEGFLG | |
| Human | ..... | .....D.... | |

Fig. 21

| | | | | | |
|--------|------------|-------------|-------------|------------|------------|
| | 1 | | | | 50 |
| Rabbit | MKNQDKKNGA | AKQPNPKSSP | GQPEAGAEGA | QGRPGRPAPA | REAEG-ASSQ |
| Human | ----- | ----- |P... | .E..SQA... | V....PG... |
| | 51 | | | | 100 |
| Rabbit | APGRPEGAQA | KTAQPGALCD | VSEELSRQLE | DILSTYCVDN | NQGAPGEDGV |
| Human | ..RK..... | R...S...R. | ..... | ..... | ...G.....A |
| | 101 | | | | 150 |
| Rabbit | QGEPPPEPDA | EKSRAYVARN | GEPEPGTPVV | NGEKETSKAE | PGTEEIRTSD |
| Human |A..... |T..... |-..... | Y....P..GD | .N.....Q.. |
| | 151 | | | | 200 |
| Rabbit | EVGDRDHRRP | QEKKKAKGLG | KEITLLMQTL | NTLSTPEEKL | AALCKKYAEL |
| Human | ..... | ..... | ..... | ..... | ..... |
| | 201 | | | | 250 |
| Rabbit | LEEHRNSQKQ | MKLLQKKQSQ | LVQEKDHLRG | EHSKAILARS | KLESLCRELQ |
| Human | ..... | ..... | ..... | .....V.... | ..... |
| | 251 | | | | 300 |
| Rabbit | RHNRSLKEEG | VQRAREEEEEK | RKEVTSHFQM | TLNDIQLQME | QHNERNSKLR |
| Human | ..... | ..... | .....V | ..... | ..... |
| | 301 | | | | 350 |
| Rabbit | QENMELAERL | KKLIEQYELR | EEHIDKVFKH | KDLQQQLVDA | KLQQAQEMLK |
| Human | ..... | ..... | ..... | ..... | ..... |
| | 351 | | | | 400 |
| Rabbit | EAEERHQREK | DFLLKEAVES | QRMCELMKQQ | ETHLKQQLAL | YTEKFEEFQN |
| Human | ..... | ..... | ..... | ..... | ..... |
| | 401 | | | | 450 |
| Rabbit | TLKSSEVFT | TFKQEMEKMT | KKIKKLEKET | TMYRSRWESS | NKALLEMAEE |
| Human | ..... | ..... | ..... | ..... | ..... |
| | 451 | | | | 500 |
| Rabbit | KTLRDKELEG | LQVKIQRLEK | LCRALQTERN | DLNKRVDLS | AGGQGPVSDS |
| Human | ..V..... | ..... | ..... | ..... | .....SLT.. |
| | 501 | | | | 550 |
| Rabbit | GPERRPEPAT | TSKEQGVGEP | GAQVPNSPRA | TDASCCAGAP | STEASGQTGP |
| Human |----- | ----- | ...A.S...V | .E.P.YP... | |
| | 551 | | | | |
| Rabbit | QEPTTATA | | | | |
| Human |S.R. | | | | |

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Fig. 22 (1/5)

1 AAGCTTTATAAAGATTTAACTACCTAATAAGGTAGAGAAGTAATTTATGTGCCCCACTAAA 60
61 AAATACTCAATTTCTGAATGTTTCGTCCAAAATTAACCTGTCAGATCATTAAATCATTGAC 120
121 TAGAAACACGTTGAGTACCTATTATGTACTAGGCACTTAGATCATTGTGAGACAATAAAA 180
181 AATACTGCATTAGAAAAGGACATTTTTCACATCTTAAATGCAATAAGCATTATTTGGCTG 240
241 GCAGTTAATTACATTTAACACATTAACATATAGAGCAAAATCTGAGCAATCAAAATAA 300
301 TTATACCCCTTGAGCAATCGATTATTTAAATTTCTTCACTATTCCCTTAAGCTGATTTCT 360
361 ACTCTGGGATTCTTTTCATAGTTCTCAAATAAGAAAAATAAAAAATTTCTAAATAAGGCAA 420
421 TACAAAAGAATAGAAATGTAAGAGAAGAGATATATTAGCTCTTGAATCCCTGTTTCCATT 480
481 TGCTGTCAATAGTGCCTCTAATGTTTCGATTTTCTCTTCAAAGAAAAATCTTGATTTAAAA 540
541 GGAAGAAAAAGTACAATCACCTTTAACAGCTAAAGTATACTGATTAGCATCTACTAAAGT 600
601 TAGCAAAGACTGAACTGAAAAAAAATTTGAAAATCTTTATTCTAAGTTATATAACGCCA 660
661 TTCACCATAGTAATGATTTTATACTTTGGTATATGGCTTTTTAAATAAATATTGCCAAC 720
721 AGGTAAAAATTTTTCTTTGCTGTCTTAAGGCATTCCTAAGAGAATTTTACCAGTGTGT 780
781 GTTCATAACTTGAATGTTAATTTAAACAATGTTACTTCTATCACCTAAATGATATACTTA 840
841 TAGAAGAGTGGTTTAATTGGGAACAGAAAAACACCACATTGCTTCTTCCCAAGAAAAAGG 900
901 GATGTATTCCATTCTCGAGGTCTCTCTCCCACTCTCTATTTATATATAATATACTGCATA 960
961 GATAAATATACACACATTATATATGATTTTTTTGAACCTAAAGAGACTGGACATATGT 1020
1021 ATTTACATGTATATATCCAACAAATATTTAATTTTGAGATCTCTCTCCCTCTTCTGATTT 1080
1081 ATTATTCTCAGTATGAATTTCTCAAACGTACGGTCTTTCACATTTCAATTCATTCAAG 1140
1141 CATGTATCGAGTCCCTTCTGCATGCTTAGCTTTTTGTGCATATGGAAGGAAGATACAAAAG 1200
1201 AAAAAGTGTCTGCCCCTTCAGAACTCTTCCATCTCTCTAGGAAGGAGATAAAACACCA 1260
1261 TATATCATTAAAGAAATTTATAAGACTAGTCCCAAAACCAATGGTACAAGCAACATGCATT 1320
1321 TTACATTATGTAGAATTTTAGAGCTTGGAAACACTTTCGTGATATATAATCCTAAGAAC 1380
1381 AATCTTTTAAAGTGCACATTTAGCTCCATTTTCAGTGATGAGGAATCTGAGACAGAATT 1440
1441 TTAAGTGACATGTCTCGTTCAAACATTATGAGTGGAAGAGTCAACACTTAAGCCTGAGTT 1500
1501 TTCTGATTCTAAGCCTAGTGCTCTTTTCAACACAGCACTGGAAACCAAAGATTGTGGTAC 1560
1561 ACAACAAGGCAACAGCCAGTCTTCTTGCTCGAGGTCCAACCTAAACTGGACCCATACCGAG 1620
1621 CAGTGTCCAGCCAAATGTCCAAATTAATTTTATCCTGCAAATATTTGTTCTTCAGTGTA 1680
1681 TACACACAGCACAACTACCATTTCTTCTGCTTAGTGCCCTTTATCTCCTACATTCCAGAA 1740
1741 ATGGGGATGTCAAATATTTTTTAAATCTGGCCTAGATGGAATCATATAAATCTCAAATC 1800
1801 ATAATATAAATCTTAAAGGTCTGGTTTCCACCAATCCTTCCACATTTTGTTCCTCCAG 1860
1861 CACTAGAGAGCCTAACCTACCCTCACCCCTTTCGAGCATTCTTGCTCCAAACGACCACCT 1920
1921 ATTTTAAGATGTCAATGACCCTTTCCCAAATCTACAAATTCACCCCAAGTTTGCCACCC 1980
1981 GACCCCAAGCGCCTGCCCGGACACGTTCCCTCCCTCCCAATAGATTGTATACCGAGTTCA 2040
2041 GGTTCTGCAGATCCCGTTGCGATGCTGTACACAGCACTGACAGATAAGATTTGACCTTT 2100
2101 CGACTCCGTCTTGGGGACTTCCCGCTGGCCAAGAAGGGTAGTTCCAATCCCAGGAAACG 2160
2161 GGCTTCTGTCTCAGGAACGCAGCCTCTAGCAGCGCACAGTCTGAGGCAATGTCTCCGGCA 2220
2221 ATTAGAACGATGCTGGGCGCCCGGTGTGCATCACTCTGCCTCATACTCCTACCAACTGC 2280
2281 AGGGCACTCGGTCCGGCAGCCAGTCCATCCCACCCACACCCAAGTCCCAGCCAGCCGGAC 2340
2341 CTTACGCAGGACCCCGATGATAGGTGAGTTCAGCGCTGCAGCAAAAGCCAAGGCCACCTGC 2400
2401 CGCTGCTGCCCCATCCCGCCAATCTGAGACCCCTAGACTGGACCGCAGAAAAGCGTTTC 2460
2461 TATGGGAACCCCCCACCAGAGAATCACGTGACGCAATCGGACGACCAATCGCTTCTTACC 2520
2521 TCTGCCCCGCGTCCAGCTTTTGGCCCTCCCTCTCGCCCCGCGCTCCTTCGCCAGCCCCG 2580
2581 CCCCTTGCTGCGGAGAGCCCGCGCCTGCGCGCTGTGTCTGCGCGCTCCTTCCCTCGCG 2640
2641 CGCGCTCTCCGTGGAAGAGCAGGGGCAGCGTGGGAGGCGCCAAGGGAGCGCGAACCTGAG 2700
2701 GAGGAAGAAACGGGGCTAGCGCGCAGGCCAGAACGGTCCGAGCCGCGGCAGTCGGCGAC 2760
2761 GCCTCAGAGCGGAAGAGGGAAGTGAATCAGGCGCCGGGTAGTGGGTGCTGGGCTGGGCT 2820

2821 TGCTGAGGTAGAGGCAGCGCCAAGAAGAGGCCTTTGCCGCTGGTGGGATTGGGATGTCTG 2880
M S

2881 AAGAACACAGTGTGCTCGGCCCGCTTCCGGAAGGTGGACGTGGATGAATATGACGAGAAC 2940
K N T V S S A R F R K V D V D E Y D E N

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Fig. 22 (continued; 2/5)

| | | |
|------|--|------|
| 2941 | AAGTTCGTGGACGAAGAAGATGGGGGCGACGGCCAGGCCGGGCCCCGACGAGGGCGAGGTG | 3000 |
| | K F V D E E D G G D G Q A G P D E G E V | |
| 3001 | GACTCCTGCCTGCGGCAATATCCTTGCATTACCGCCCTCCCCACCCAGCCCAGCCCAG | 3060 |
| | D S C L R Q | |
| 3061 | CCCGCCCTTCTCCTGGGACCCGGGAGCCTGCAGGATCCGCGGGGCACCGGCGCGGAGCTG | 3120 |
| 3121 | CCTCTCAACCTGCGGCTTAACCTGTCTCTTTGGGATCGCCCCGCTCTGAGAGGGCAAGGGG | 3180 |
| 3181 | GAAGCCCCCGTTTCTACCCAGTCGGCAGGAGACGCGAGGGTCCCCTCTTGAAGCCTG | 3240 |
| 3241 | CCCTACCCCGCGCGCCTTCCACGCCCCCAGATTCTCAGGTTGCACCCGAGTGCCTGCCT | 3300 |
| 3301 | GCCTCGGGAAGTGGTCCCGCCCGCCGCGCCCTCGCGGCGCTGGGGAAGGCGGCCCGGCT | 3360 |
| 3361 | GGTGGGGAAGGCTGGTGCCGACCGCCTTAGTTTTCTTCTAGAACTCTGATTTCTTGGG | 3420 |
| 3421 | GTCACATTAGCTCCAGAAATTTCTGATTGTGGGGAACCTGCATCTTCTTCTAGTGGTTTT | 3480 |
| 3481 | GTTTTTTGGTTGTGTTTTTGTATTGTAGCGTTAAGGTAGTTTATTGCTTACCGGGGGG | 3540 |
| 3541 | CCGGGGGAGATGGGACTGTTGAAAATGAGGGTCCCTGTGCTTTCAGCCCATTGGCCTT | 3600 |
| 3601 | TTTAAAAAAGAGAGAGAGAGAGAGAGGGGATTGGCAAAATATACATTGTACAG | 3660 |
| 3661 | AATTTGTTAACTGGGGGAGGGGAATGAATACAAAAATACAAAACTCCTAGAAGGAAGCT | 3720 |
| 3721 | TGGAGCCTTTTACCTGCTAAGAAAAAGGACAATAGAAAAACAACGGGGAATGCGTGTGGA | 3780 |
| 3781 | GAATCCTTGGAAATATTTAAATAAAACCCCAATGAATAAGATAGAAGATGAGTCATTCTG | 3840 |
| 3841 | ATAAAGCAGAATCATTTTTGTAACTCTAAATTTGTTTCCATTTTAGTTAAATATGGCAG | 3900 |
| 3901 | TCAGTTCGCGTTTCTGTTTTTGCATATTTGAATATTCATACTTTGGCTTCGCATTTGC | 3960 |
| 3961 | ATTACATCTTTTTTAGAAAAATGTAAATGTTGCAAAAAACCGAAGCTGTAGTTTTAGAA | 4020 |
| 4021 | AATCTCAGACACTGAATTTGTATGCATTTCTAATCTTGGGTGTATTCTAAGGAAGACT | 4080 |
| 4081 | CTCAACAATGTCCTGTTATAGTGGGGAATATGAGAGTGAAATATTTAATGGCAACAAT | 4140 |
| 4141 | ATCCTTTTTTAAAGGCACCTAAATAGAGCATTAGACATTTATCAATATATAGATAGTGCT | 4200 |
| 4201 | TTGCCCAACTTTCACAATTAATTAGCTGTTGCTCTTTTGCATTATTTAAATACTTAAGTG | 4260 |
| 4261 | CTTGAGATTATAAAAAATGAGCTAATCTACATCAGGCATGCTTCTCTAGAAATCCCTGCA | 4320 |
| 4321 | GCCTTGAAATAACAGCTTGTCAACCAGAGATTTTGTGTAAGAACTTTTTCTTTAGAAAA | 4380 |
| 4381 | TAAATGGTGAACATGCTTCCTAAAAACATTATTTGTGATGGGATAAGATGGTGTTTTATG | 4440 |
| 4441 | AAACCCAGTGTATTTTAGGTAATTTGTGGTGACTTTTAAAAGGTACTGCTGTATCCATA | 4500 |
| 4501 | TCAGTGGATCTGCTTTTTGATCAGTTCATCTAAAATATAAAGATACTGTCTCTTCTTAC | 4560 |
| 4561 | CGTTACATACAGCCAGGAAAGACAGCCCTAGTGGTGGGGTACTAGAGTTGGAGGAACAAG | 4620 |
| 4621 | TGAACTCTGTGGTTTTCTTTTTAGGGGAATGTTGTACATTCTGACAGTCTGATTGGCCT | 4680 |
| 4681 | TCTGTTTCTCATGCTTGCTAACTCACTAGTGCTTTCAAAGAGAGCCTGAATTTAATAGGT | 4740 |
| 4741 | ATGGTCTAACACAGTTTGAATAACCTTTGTGAAATATGAGAGAAAATATCTAAAGCAAAA | 4800 |
| 4801 | AATTAAGCTGCCACCTAAGGGACATATGAATTATTACATCTTCTGTGATGCCTCTTTTCA | 4860 |
| 4861 | TCAATATTGAGAGATTGCTAATGTGTATCATTCAGATTGCTAATCTGCCAGCATGTTCTA | 4920 |
| 4921 | CCAGCATTTTCAAGATAATACAGAATATGGTTCTAGCAAAAGTTTGGTCTTTATTTTTTCAA | 4980 |
| 4981 | TTAGAATCACAGGAAAAGACATATTTTGGTTGATAATAGGTTATTTTCAATTTGGGGGACTA | 5040 |
| 5041 | ATAATTCTGATATATATTTTAGGATTTCTTAAACCACTCTAGGTAATGTTTGCATATG | 5100 |
| 5101 | TATCTCACTGGGAAATGAAAGACTATCAAGGTGTTCACTTGATAGTTAGAACCAAGGGTG | 5160 |
| 5161 | AAACAGTCTTTGCTTTATTAATAAAAAAGTCTAATGTTCTATTTTGCTTTTGATATTTTGC | 5220 |
| 5221 | CTTTGATTAACATCCTGGAACCAACACATTGAATTTCCAGTATTGAACATAGTGACCAA | 5280 |
| 5281 | AGTAATTTTCTTTTTATATGTAAATCAAGTCATAAAGAACCAGTGGTTATAATGCTTTCT | 5340 |
| 5341 | GGGGGCCATCCTTTGCTGTTACACCCTTAACTTCCATCACAGGAAACATGACAGCTGCCC | 5400 |
| | G N M T A A L | |
| 5401 | TACAGGCAGCTCTGAAGAACCCCCCTATCAACACCAAGAGTCAGGCAGTGAAGGTGAGTC | 5460 |
| | Q A A L K N P P I N T K S Q A V K | |

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Fig. 22 (continued; 3/5)

5461 GCAGACTACAACACAGTGATCTCTGCTGATATCTTATTCTTAGTAAAATCCTTGCAGTGC 5520
5521 AAAAAAAAAATCAATATTTTAACTGTTTGCTATCTTTGACAAGAAGAGTTTATAATGTAGT 5580
5581 TTGATAGGTAAAAATTTACAGTGAAAAATAGCCCTATAATGTAGTTATGATAATGCTGC 5640
5641 ATGGTAAGATACAGTAAGTTCAAACGATAGTGAAATCATTTGTGTGTGTTTTTAGAGGAG 5700
5701 ACCACTCAGGCTGAATTTGAGCAAAGGTTTGAAAAATAAGTTAAACCTTTACAAAAATAA 5760
5761 ACAGATTGTAATTGCTTTTTTAAAGATTTTTTAAACCATACAAATACTAAATACTTATTA 5820
5821 TAGAAAGCTCAGACATATGAGAAGGTTAAAAAGATAGTGGTTTGTGGTCCCAGCACCCAG 5880
5881 AGATAACAGTTACTACTTTGGGGCCTTGCTGTATTGTTACAGAGTTCCCTTTTGTTTTTT 5940
5941 TAAGAATGAATTTTTTAAACGGGCTTTTTCAGCTATATGCAATGGTACATGAGCTTTCCT 6000
6001 TCCCCAATAAGTTAATAGCCTTTTTTAACTTGTATATGGATAAGCTCCAGTGTATACA 6060
6061 TAACTAATCTTTTGTATATTTAGACTGACTTTTTTTTTCTATTGTAAACCACTGAAA 6120
6121 TCAATATTTTTTGGTAAATTTTTAATTGTTCTTTGAGTAAATTGCTAGCAGTGAATTA 6180
6181 CTGGATCAAAGAATGCACTTTTTTTTAAAGGCTTTTGGTATGCAGTATTGCCAAATTGCC 6240
6241 TTCAGAACAGTTGTGCAACTTACATTCTCTGCACTCTTTTACTAATTCTTAACCTATTTA 6300
6301 CGTATTTATTTAAATGATGCCCATAGCATCAACCCCGTGTCCATAGCTATTTCATACAT 6360
6361 CCTAGGAGCTTCAAGAATCTCAATTGAATAGTAGTAAGTAATAACTTAGGTAAATGCATA 6420
6421 ATAATTATCTAGGTAACATAATTTTTTATTGGGGAAAAATTTCTTTGGTTTTTACAAGTTG 6480
6481 TAAAGATTGTCGTTGAAATTTTCAATTTTACCGTGGATGCAAAGATATTTTTCTAAATCTG 6540
6541 GTAATTGCAGTCTTTAAACCAAAGATAACAGTAGGTGGTAGAAACATTCTGTGAAATCCT 6600
6601 GACCAGTAGGAATGCTGGAGGTATCACTTTGTGTTGAATGGAAGGAGAAACGAATTGTTG 6660
6661 AAAAGGTCAGTTAAGTGTTCCTTTGCTTGCCCGATGGGTAAAGAAAATAACTGCTTTTG 6720
6721 AAGCAGGCTTTTGCCAAAGAAAAAGATCATTATTAATGAACATCACTATATTTTCATATC 6780
6781 TACAGTCAATTCATATAAATTACAGTCAATTTTCTTTTAAAGACAGCTTGGTTTATTAAA 6840
6841 TTTTTAAATAAAAAAGTTTTTAAAGAAAAATTTACTTCTGAAGGATAATTCAAGGTGAAAC 6900
6901 TGCAATCTGCCTCCTTGTTTTGTTGGGAATTTTTTTTTTTTTTTTTTTTTTTTGAGACG 6960
6961 GAGTCTCACTCTATCACCAGGTTGGAGTGCAGTGGTGAATCTCAACTCACTGCACCCT 7020
7021 CCGCCTCCCGGGTTTAAAGCAATCCTCCTGCTTCAGCCTCCCGAGTAGCTGGGATCACAGG 7080
7081 CACACACCACCATGCCTGGATAATTTCTGTATTTTAGAAGAAAACAGGGTTTACCATT 7140
7141 TTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCTGCCATCTCGGCCTCCCAA 7200
7201 GTGCTGGGATTACAGCTGTGGGCCACCACACCCGCGCTTTTGTGGGATTTTTTTTTTT 7260
7261 TAAGATCAAGACATAAATTTAAATGTTGTTTAAATAAATTGTTAAATTATCACATTGATC 7320
7321 TGTTAGCAAATCCTCTCAGCTCTGCCTTCAATTATGTTAATAGTCTGTCAAGTTTCTTAC 7380
7381 CACCTCCACTGCTACTATGCTTACCACATCCAGCCTGTATTATTGCAATTGCCTCCTAAT 7440
7441 TGCTCTCCCTGCTTCTACCTTATCCCCTACTCCCACAGCTTATTTTCTGTAACATAGATG 7500
7501 CCAAAGCAATCCTGTTAAATGTGAGTCAGATTATGGCACTGCTCTTAAACCTTCCAAT 7560
7561 GTCTTCTCATTTCTCTCAGTAAAGCCAACTCCTTACAATGCCTGTAGGCCTTACACGA 7620
7621 TCTGTCTCCCATAACTCTGACTTACTCACGTGCTTTTCTCCCACTTCACTCCAAC 7680
7681 CACATTGGGTTTTTTTCTGTTTCTGGAACACACTGAACACACACTAATAGCACTGTTCTT 7740
7741 TCCTCTGTCTGAACACTTTCTCAGTTATCCCAAGCCTTCTTTCAGTCTCTCAGGTCC 7800
7801 TTACTCAAATGTCACATTCATAGTGTAGACTTTCTGAAATCTAAACCCTCCTCATACAG 7860

7861 ATATGTCTAAATGTTCTGTATTATTTATTGACCCACCAGGACCGGGCAGGCAGCATTGTCTT 7920
D R A G S I V L

7921 GAAGGTGCTCATCTCTTTTAAAGCTAATGATATAGAAAAGGCAGTTCAATCTCTGGACAA 7980
K V L I S F K A N D I E K A V Q S L D K

7981 GAATGGTGTGGATCTCCTAATGAAGTATATTTATAAAGGATTTGAGAGCCCGTCTGACAA 8040
N G V D L L M K Y I Y K G F E S P S D N

8041 TAGCAGTGCTATGTTACTGCAATGGCATGAAAAGGTAAGTTATGAATTATAAATCTATAT 8100
S S A M L L Q W H E K

Fig. 22 (continued; 4/5)

| | | |
|-------|--|-------|
| 8101 | GACTGGTCTTTTACAATAGGGAATGACAATGACAACCTCTCTCACCTAAATAACCATT | 8160 |
| 8161 | TGATTTGTTGTACATTTTGTATTACAAATAAAATGCATGAAAAGGATAGTTCATATTT | 8220 |
| 8221 | ATGTTTACTAGCCTTGCTCTTAAGAGATTCTGATTCCAACACTTGTGTTTATTCAACAAT | 8280 |
| 8281 | GATTATTAGTAATTAACATAAATCTTGAACCTCTGAATTAATCAAACTTTGTAAAAGAA | 8340 |
| 8341 | AATAAGCAATACAAATCAAGAATTCTTTCACAGTGACCAAAGGTGAAAACAACACAAGG | 8400 |
| 8401 | ATCGAATATGATTCAACCA | 8419 |
| 8420 | TTAAAAGGAATGACATTCTGACACATGCTATAACATTAATAAACCTTGAAAACATACCAA | 8479 |
| 8480 | GTGAAATGAGCCAAACACAAAAGAACTAATATTTTATAATTTTACTTATATGAAATAATC | 8539 |
| 8540 | TAGGATAGGCACAAACACAAAGGGACAGAAAGTCCTTAGAGGTTACTAGGAAGTAGGGAAAG | 8599 |
| 8600 | CAAGGAATAGGGAGTTAGTGCTTAATAGGTACAGAGTTCCTCCTTGGAGTGGTAAAAAG | 8659 |
| 8660 | TTTTGGAAACAGATAGTGGTGATGGCTACAGTACATTGTGAATATAATTAATGCCAATGG | 8719 |
| 8720 | ATTTTACACTTAAAGATGGTTAAAATGGCAAATTTTGTGTTAGATATTTTACAACCTTTT | 8779 |
| 8780 | TAAAGAATTAGGAGTTTGGAGGATCAAGAATTCTTAAATCATGTTTTTCTATTTTCATGT | 8839 |
| 8840 | GTATATTTTGCAATGTAAGTAGATGCTGGTACATCATCTGTCAAAGAGTATAAGTGATT | 8899 |
| 8900 | TTGAGCTTTGGGTAAAAAACTGGATAACATGTAAATAGAACCAGTCATAAAAATATTGAG | 8959 |
| 8960 | TGTTTGAAGTGTATCTGAGTGAAAAACACAAACATAAGAAAAAGCACATAGTAAACAAT | 9019 |
| 9020 | AGTTCCCCCTTTTACTCTAAAATGCACCAATTTGGGTAGTAATTTATATGGCACCTTAT | 9079 |
| 9080 | CATGGAACACTTTCTGTTGCCAGGTACCATACTATTAATGTTTTATTTAACCTTTACAAC | 9139 |
| 9140 | AACCTGTGGAAGTATATAAATATCTTTATCATCCTCAATTTACAGATGAAAAGCTAGCT | 9199 |
| 9200 | TTAAAACCCAAGCCAGCGTAGTCTTAGCATAGCCTCAAGATTGCAGTGAACATTGATTAC | 9259 |
| 9260 | TTATTATATTCACATATTTCTCAAAGGACTTTATAAATATTAACTCATTTAATCCTCAT | 9319 |
| 9320 | AAAAATGGAGGGAAATGCTTGCTATTATTCCTCTTTTGTCTGAGGAACTGAGGCATG | 9379 |
| 9380 | TGTGAAGTCTTCATTTCTTCCAAATGTGAGTCACCAAGTTTTTACCAATCTTCGAAGTATT | 9439 |
| 9440 | TCTGAAATCTATCTGTTCAAGCGTATCTAATGCAGCTGTTTACAGCATCTCTCCAGTCT | 9499 |
| 9500 | GTTGCCATAGCTTCCCTGACTGGTTTCCCAAGTTAACAGTTTTGCTCCTTCAAATCTGTTT | 9559 |
| 9560 | TCCACCCAGCCATCAAATGATATCTTTAAAATCAAATTTGCCCTTGTGAGTCACCTGCA | 9619 |
| 9620 | GGGATAAAGTCAAAGTTCCCAAGTCTAGCTTCATCTCCATGTCATTCTTCCCCTCAGGC | 9679 |
| 9680 | TATAGCAATGCCAGCCTTTTCTCGAATGCACCATATTGTTTACACCTCCATACATTTG | 9739 |
| 9740 | CTCATGATTTTCTGGTGTTAGCCTGTACCTACTCATTCTTTAATGTGTCAATTCCTCC | 9799 |
| 9800 | ATGAAGCCTTAGCTGAAACATTCCTCTATACTGTTAATCTGGGTATAAGCCTCTCCCTGG | 9859 |
| 9860 | TGCTTTAATAGCACCTGCAGCACAACTCTCATTTTCATACATTAGATTAATAATTACCTGTT | 9919 |
| 9920 | TATATGTCTGTCTCCTCATGCTAGACCAGAAAAATGCTGTATTTGTTCACTTTTGTATCCC | 9979 |
| 9980 | CAGCATCTAGCACAGTACTCAGTATACAAAGGTATTCCATAAATATTTTTTGAACAGAAA | 10039 |
| 10040 | GAAACCAGAGCTCAGATTCCTAATACTTGATCATTACTCTCTATTTTTCAAATTAGAGTC | 10099 |
| 10100 | AGAGTTAAAGTTTCTAAGTCTTAGCTATTAAACAATACCTTCTTTCTTTGGGAGAAAAA | 10159 |
| 10160 | AAATCTGACAAAGGCTGACTAATCGAAGTGGAAGTTGGGATGGTTGATCCCAGTTTGAAT | 10219 |
| 10220 | TTTCTTCTGACTATGTGGTGAGAATGAGAAATGCAGAATGTCCACCTGTTTTGAGCAGGA | 10279 |
| 10280 | ACACTATGCTGCAGATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGACGGAGTCTTG | 10339 |
| 10340 | TCTGTGCGCCAGGCTGGAGTGCAGTGGCGCAATCTCGGCTCACTGCAAGCTCCGCCTCCT | 10399 |
| 10400 | GGGTTACACCATTTGCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCACCCGCCA | 10459 |
| 10460 | CCACGCCCGGCTAATTTTTTGTATTTTAGTAGAGACGGGGTTTACCATGTTAGCCAGG | 10519 |
| 10520 | ATGGTCTTGATCTCCTGACCTCGTGATCCGCCGGCCTCGGCCTCCCAAAGTGTGGGATT | 10579 |
| 10580 | ACAGGCGTGAGCCACCGCGCCCGGCTATGCTGCAGATTTTTTAAAACATTATTTAGAAT | 10639 |
| 10640 | TAATGTACTAAAATGTAACTAGTATCTCACTAGAATGTAACCTTCATGAGGGCAGGGACT | 10699 |
| 10700 | TTCAAGGTTTTGTTTATTACTGTAACCTCAGTGCCAAGAAGTACCTGGTGCATAATTG | 10759 |
| 10760 | GTGCTCAAGAATTTATTATTTGTTAACTAATAAATCAGGGTCTATAGCAGTGCCCATTC | 10819 |
| 10820 | CTTCTTTAAGAAAAATGTTTTTACCAAATATGAGAAATGACCTTTTATTATTCTGTCAACA | 10879 |
| 10880 | TTTACATCCTGGTTTGTTTTTTAGGCACCTTGCTGCTGGAGGAGTAGGGTCCATTGTTCTGTG | 10939 |
| | A L A A G G V G S I V R V | |
| 10940 | TCTTGACTGCAAGAAAACTGTGTAGTCTGGCAGGAAGTGGATTATCTGCCTCGGGAGTG | 10999 |
| | L T A R K T V * | |

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Fig. 22 (continued, 5/5)

| | | |
|-------|---|-------|
| 11000 | GGAAATTGCTGGTACAAAGACCAAAACAACCAATGCCACCGCTGCCCTGTGGGTAGCATC | 11059 |
| 11060 | TGTTTCTCTCAGCTTTGCCTTCTTGCTTTTTTCATATCTGTAAAGAAAAAATTACATATC | 11119 |
| 11120 | AGTTGTCCTTTAATGAAAATTGGGATAATATAGAAGAAATTGTGTTAAATAGAAAGTGT | 11179 |
| 11180 | TCATCCTTTCAAACCATTTTCAGTGATGTTTATACCAATCTGTATATAGTATAATTTACA | 11239 |
| 11240 | TTCAAGTTTAATTGTGCAACTTTTTAACCCCTGTTGGCTGGTTTTTTGTTCTGTTTTGTTT | 11299 |
| 11300 | TGTATTATTTTTAACTAATACTGAGAGATTTGGTCAGAATTTGAGGCCAGTTTCCTAGCT | 11359 |
| 11360 | CATTGCTAGTCAGGGAAAATGATATTTATAAAAAATATGAGAGACTGGCAGCTATTAACAT | 11419 |
| 11420 | TGCAAAACTGGACCATATTTCCCTTATTTAATAAGCAAAATATGTTTTTGGAATAAGTGG | 11479 |
| 11480 | TGGGTGAATACCACTGCTAAGTTATAGCTTTGTTTTTGCTTGCCCTCCTGATTATCTGTAC | 11539 |
| 11540 | TGTGGGTTTAAGTATGCTACTTTCTCTCAGCATCCCAATATCATGGCCCTCAATTTATT | 11599 |
| 11600 | TGTGGTCACCCAGGGTTCAGAGCAAGAAGTCTTGCTTTTATACAAATGTATCCATAAAATA | 11659 |
| 11660 | TCAGAGCTTGTGGGCTGGAACATCAAACTTTTGTTCCACTAATATGGCTCTGTTTGGAA | 11719 |
| 11720 | AAACAGTCCAATCAGAAAGAATGATTTGCAGAAAGAAAGAAAACTATGGTGTAATTTAA | 11779 |
| 11780 | ACTCTGGGCAGCCTCTGAATGAAATGCTACTTTCTTTAGAAATATAATAGCTGCCTTAGA | 11839 |
| 11840 | CATTATGAGGTATACAAC TAGTATTTAAGATACCATTTAATATGCCCCGTAAATGTCTTC | 11899 |
| 11900 | AGTGTTCTTCAGGGTAGTTGGGATCTCAAAGATTTGGTTCAGATCCAACAAATACACA | 11959 |
| 11960 | TTCTGTGTTTTAGCTCAGTGTTTTCTAAAAAAGAAACTGCCACACAGCAAAAAATTGTT | 12019 |
| 12020 | TACTTTGTTGGACAAACCAAATCAGTTCTCAAAAAATGACCGGTGCTTATAAAAAGTTAT | 12079 |
| 12080 | AAATATCGAGTAGCTCTAAAACAAACCACCTGACCAAGAGGGAAGTGAGCTTGTGCTTAG | 12139 |
| 12140 | TATTTACATTGGATGCCAGTTTTGTAATCACTGACTTATGTGCAAACTGGTGCAGAAATT | 12199 |
| 12200 | CTATAAACTCTTTGCTGTTTTTGATACCTGCTTTTTGTTTTCATTTTGTTTTGTTTTGTAA | 12259 |
| 12260 | AAATGATAAAACTTCAGAAAAATAAAATGTCAGTGTTGAATAATTTATTTTTCTCTGACAC | 12319 |
| 12320 | TTTAACAATTATGAATGTATGGTTAATTAAGAGGAAAGGTTTTCTGCTTCTACCACCAAG | 12379 |
| 12380 | TACTGTACTCTTAACAAGAACAGTTTGGTAGGGTTTTTATAAGACTATATAGATATAAGA | 12439 |
| 12440 | TGATAGAGAAGAGAGTCATGAATGATGTCAGAGCACTACTGAAGCCTTTGGAGTGATTCC | 12499 |
| 12500 | ATAGCCTTCTGGATGGCAGCTGAATACCTATATGTAGTATCACTGCCCAAAGACCTAGAC | 12559 |
| 12560 | TAGAAAGTGCAAAGTAGCTTAGCAGCTGCAGTCATTCACTCCCAGCCTCCAAAATTCTCT | 12619 |

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Fig. 23 (176)

1 - GATCCCTCTCCAGGTGGAAG - 60 /|\

61 - CTCCCTTCATACCAAAGTTTAAAGGCCCTGGGGATACGAGTAACTTTGACGACTATGAGG - 120 |

121 - AAGAAGAAATCCGGGTCTCCATCAATGAGAAGTGTGGCAAGGAGTTTCTGAGTTTTAGG - 180 |

181 - GGCATGCCTGTGCCCCCATGGGTTTTCTTTTTTCTTTTTTCTTTTTTGGTTCGGGGGGG - 240 |

241 - TGGGAGGGTTGGATTGAACAGCCAGAGGGCCCCAGAGTTCCTTGCATCTAATTCACCCC - 300 |

301 - CACCCACCCCTCCAGGGTTAGGGGGAGCAGGAAGCCCAGATAATCAGAGGGACAGAAACA - 360 |

361 - CCAGCTGCTCCCCCTCATCCCCCTTACCCCTCTGCCCCCTCTCCCACTTTTCCCTTCCTC - 420 |

421 - TTCCCCACAGCCCCCAGCCCCCTCAGCCCTCCAGCCCACTTCTGCCTGTTTTAAACGA - 480 |

481 - GTTCTCAACTCCAGTCAGACCAGGTCTTGCTGGTGTATCCAGGGACAGGGTATGGAAG - 540 |

541 - AGGGGCTCACGCTTAACTCCAGCCCCACCCACACCCCCATCCACCCAACCACAGGCC - 600 |

Human cAMP-dependent protein kinase
catalytic subunit alpha
Accession number X07767 (until *)
- follow arrow until line that
begins 1561 -

601 - CACTTGCTAAGGGCAAATGAACGAAGCGCCAACCTTCCTTTTCGGAGTAATCCTGCCTGGG - 660 |

661 - AAGGAGAGATTTTGTAGTGACATGTTTCAGTGGGTGCTTGCTAGAATTTTTTAAAAAAC - 720 |

721 - AACAATTTAAATCTTATTTAAGTTCACCAAGTGCCTCCCTCCCTCCTTCTACTCCC - 780 |

781 - ACCCTCCCATGTCCCCCATTCCTCAAATCCATTTTAAAGAGAAGCAGACTGACTTTGG - 840 |

841 - AAAGGGAGGCGCTGGGGTTTGAACCTCCCCGCTGCTAATCTCCCCTGGGCCCTCCCCGG - 900 |

901 - GGAATCCTCTCTGCCAATCCTGCGAGGGTCTAGGCCCTTTAGGAAGCCTCCGCTCTCTT - 960 |

961 - TTTCCCCAACAGACCTGTCTTACCCCTTGGGCTTTGAAAGCCAGACAAAGCAGCTGCCCC - 1020 |

1021 - TCTCCCTGCCAAAGAGGAGTCATCCCCCAAAAGACAGAGGGGGAGCCCCAAGCCCAAGT - 1080 |

1081 - CTTTCTCCAGCAGCGTTTCCCCCAACTCCTTAATTTTATTCTCCGCTAGATTTTAAAC - 1140 |

1141 - CTCAGCCTTCCCTCAGCTGAGTGGGGAGGGCATCCCTGCAAAAGGGAACAGAAGAGGCC - 1200 |

1201 - AAGTCCCCCAAGCCACGGCCCCGGGGTTCAAGGCTAGAGCTGCTGGGGAGGGGCTGCCTG - 1260 |

1261 - TTTTACTCACCCACCAGCTTCCGCCTCCCCCATCCTGGGCGCCCCCTCCTCCAGCTTAGCT - 1320 |

1321 - GTCAGCTGTCCATCACCTCTCCCCCACTTTCTCATTTGTGCTTTTTTCTCTCGTAATAGA - 1380 |

1381 - AAAGTGGGGAGCCGCTGGGGAGCCACCCATTCATCCCGTATTTCCCCCTCTCATAACT - 1440 |

1441 - TCTCCCCATCCCAGGAGGAGTCTCAGGCCTGGGGTGGGGCCCCGGGTGGGTGCGGGGGC - 1500 |

1501 - GATTCAACCTGTGTGCTGCGAAGGACGAGACTTCCTCTTGAACAGTGTGCTGTTGTAAAC - 1560 |

1561 - ATATTTGAAACTATTACCAATAAAGTTTGT*TAAGGAGGAGTGTGCTGGTGTCTC - 1620 |

1621 - GACTTCGATCACCCACCCACACACCCCCAGGGGGTTGGAAAGGAATTTTCGACCCAGC - 1680 |

1681 - GTGCAGGCCGATCAGGTCTGGCTTGAAGTCTTGTAAACAGGGTTTAGCTGAAATTCCG - 1740 |

1741 - GCACTCCTTCGGCCCCGAGGAGAAACGAGCGTCAAACCTGCCCTTTGACCCAGATTCCG - 1800 |

1801 - GGTCCCCAAATCTGCGGCGCGCCCCCTCGGCGTCCAGCCCGGGACCGAGAGGGCGCTCTA - 1860 |

1861 - GGGAGGCGCTGGGGCTGGCGCGCCAGGAGGCCGAGCGGCGGGGGCGGCCCTGGCAGG - 1920 |

1921 - GGGAGTAGAAGGGGAGAGGGTGCAGCCCCCTTCCCGCATCCTCAGCGCCGGGCCAGG - 1980 |

1981 - CGCGCTGAGGGACGCGGGGGCGGCGGCAGCAGGAGGGTCCCCGCAGCACCTGCGAGCG - 2040 |

2041 - CGGCAGCCCCGGCCGCGGGCGGCGAGTCCCGGTAAGTGCCTCCCGAGAGCGGAGCGC - 2100 |

2101 - GCTGGAGAGGCGTGGAGAGGGGGCTGGGCGCCGGGACGTCTGGGTCCCGCGCCCAATG - 2160 |

2161 - GCTGGAGGGCGGCCGAGCGCCCGCCCCGCCCTGCCGCCCCCTCTCCCTCCCCCGG - 2220 |

2221 - CACTCCCCCTCCCCCTCCCCCGCCGCGCTTTCCCCCGCCCCCGCCCGGCGCAACTCC - 2280 |

2281 - GCGGCGCCTCCTTAAAAAGCGCGCGGGAGTTGTAAGGGGGGCGGAGCGAGCCGGAGTG - 2340 |

2341 - AGCGAGAGCGCAGGGTAAAGGGGGCGGGCGGGGGGCGGCTCCACCTTAAAGCGGGC - 2400 |

2401 - GCGTGGGGTGGGAGGGAGGAAGGCGGGCGGCGGGAGGAGGGAGGGAAGGAAGG - 2460 |

2461 - GGGCCGAGTGTCCCGGGCGCAGGGCGCGCGTGGCGGCGGCGGCGGGGAGGGGGC - 2520 |

2521 - GGCCGCGCCGCGCTCCCTCCTCCCCCTCGCATCCCCGGCCCCGCGCGCGCCAGCAGAA - 2580 |

2581 - GCGGGTCTGTGTGTGCTGCGTGCAGTGAGTGAGTGATGTCATATTTTTTCTCTCTTT - 2640 |

2641 - TCTTTCTCTCTCACTGTTTTTCTCTCTCTCTCTCTCTCTCTCTCTTTTTTTTTT - 2700 |

2701 - TTTTTTTTTTGCAAGAAACAGCAGCGCCGCCGCGCTCCGCCGAGGCGCTGCGCCCCC - 2760 |

2761 - GGGGGGGAGGCGGAGGAGGCGGGCAGCGGCGGAGGGAGGGGAGCGGGGAGGGGGGCGC - 2820 |

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Fig. 23 (continued; 2/6)

2821 - CGCGCTGGGAGGGAGGCAGCGCGCACGGTGCAGCCGGGCCGGGCGGGAGGCATGGCGGGG - 2880
- M A G

2881 - CCCCCGGCCCTACCCCCGCGGAGACGGCGGGCGGCCACACGGCGCGCCGCGCTCG - 2940
- P P A L P P P E T A A A A T T A A A A S

2941 - TCGTCCGCGCTTCCCCGCACTACCAAGAGTGGATCCTGGACACCATCGACTCGCTGCGC - 3000
- S S A A S P H Y Q E W I L D T I D S L R

3001 - TCGCGCAAGGCGCGCGGACCTGGAGCGCATCTGCCGGATGGTGGCGGCGGGCACGGC - 3060
- S R K A R P D L E R I C R M V R R R H G

3061 - CCGGAGCCGGAGCGCACGCGCGCGAGCTCGAGAACTGATCCAGCAGCGCGCCGTGCTC - 3120
- P E P E R T R A E L E K L I Q Q R A V L

3121 - CGGGTCAGCTACAAGGGGAGCATCTCGTACCGCAACGCGCGCGCGTCCAGCCGCCCCCG - 3180
- R V S Y K G S I S Y R N A A R V Q P P R

3181 - CGCGGAGCCACCCCGCGGCG - 3240
- R G A T P P A P P R A P R G A P A A A A

3241 - GCCG - 3300
- A A A P P P T P A P P P P P A P V A A A

3301 - GCCCCGGCG - 3360
- A P A R A P R A A A A A A T A P P S P G

3361 - CCCGCGCAGCCGGGCG - 3420
- P A Q P G P R A Q R A A P L A A P P P A

3421 - CCAGCCGCTCCCCCGGCGGTGGCGCCCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG - 3480
- P A A P P A V A P P A G P R R A P P P A

3481 - GTCGCCGCGCGGAGCCGCGCTGCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG - 3540
- V A A R E P P L P P P P Q P P A P P Q Q

3541 - CAGCAGCCG - 3600
- Q Q P P P P Q P Q P P P E G G A V R A G

3601 - GCGCGGCG - 3660
- G A A R P V S L R E V V R Y L G G S G G

3661 - GCCGGCGGTGCGCTAACCCG - 3720
- A G G R L T R G R V Q G L L E E E A A A

3721 - CGAGGCCGTCTGGAGCGCACCCGTCTCGGAGCGCTTGCGCTGCCCCGCGGGGACAGGCC - 3780
- R G R L E R T R L G A L A L P R G D R P

3781 - GGACGGGCG - 3840
- G R A P P A A S A R P S R S K

3841 - AGCGGGGCG - 3900

3901 - GGGAGGAACTGGGTGGCGGGTGGCTGGGGCTTTGCGCGCGTTTCTCGGGGCTCGGTGCG - 3960

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Fig. 23 (continued; 3/6)

3961 - TGGTGACCTTGGCAAGTGATTGAATCTCCCGGAGCCTCAGTTTCCTCCGCTGTAAACGCG - 4020
4021 - GTTTAATAACAGTAGCGACCCCTTGGGGTTGTTGAGCGAGTTTAGTAAGATTTGGTTGTC - 4080
4081 - GAGGGCTTTAGTTAACACAGAGCCTGGCACGGAGTGAATGCGTAAAAGTTAGTCCGTATT - 4140
4141 - GTTCTTAAAGGTGGAATCGGTTCTCTCTCCCCACCGCCCGGACGCCACAGTCAGGGTCTG - 4200

4201 - GGATTAGAACAGCTACTAATTTTGCATGCTTCTCTCTCGGCTCCAGAGAGGTGGAGAAG - 4260
- R G G E E

4261 - AGCGAGTACTTGAGAAAGAAGAGGAAGAAGATGATGATGAAGATGAAGATGAAGAAGATG - 4320
- R V L E K E E E E D D D E D E D E E D D

4321 - ATGTGTCAGAGGGCTCTGAAGTGCCCGAGAGTGACCGTCTGCAGGTGCCAGCACCACC - 4380
- V S E G S E V P E S D R P A G A Q H H Q

4381 - AGCTTAACGGCGAGCGGGGACCTCAGAGTGCCAAGGAGAGGGTCAAGGAGTGGACCCCT - 4440
- L N G E R G P Q S A K E R V K E W T P C

4441 - GCGGACCGCACCAGGGCCAGGATGAAGGGCGGGGCCAGCCCGGGCAGCGGCACCCGCC - 4500
- G P H Q G Q D E G R G P A P G S G T R Q

1 - AGGTGTTCTCCATGGCAGCCATGAACAAGGAAGGGGGAACAGGTAAGGATCCCTCTGGGT - 60
- V F S M A A M N K E G G T

61 - GGGGAAGAGTGCTAGGTGGAGAGGAACTCAGCCCGAAGACAAAGCCAAAGACAGGTGTTT - 120

121 - TTTTCCTTCCCAGCTTCTGTTGCCACCGGGCCAGACTCCCCGTCCCCCGTGCCTTTGCCC - 180
- A S V A T G P D S P S P V P L P

181 - CCAGGCAAACCAGCCCTACCTGGGGCCGACGGGACCCCTTTGGCTGTCCGTAAGTTGGG - 240
- P G K P A L P G A D G T P F G C P

241 - GTATTGGAGACATGGGGGTGCTGCTCAGGTGTGTGGTACAGCCAGAGACATCCGTGTT - 300

301 - CACTGGTGTCTGTTTGTGTTTGTATGCAGTCCCGGGCGCAAAGAGAAGCCATCTGATCCCGT - 360
- P G R K E K P S D P V

361 - CGAGTGGACCGTGATGGATGTCGTCGAATATTTTACTGAGGCTGGATTCCCGGAGCAGGC - 420
- E W T V M D V V E Y F T E A G F P E Q A

421 - GACAGCTTTCCAAGAGCAGGTGAGTTTCCAGCCCAGGACTACACACTGACAGACACAGAG - 480
- T A F Q E Q

481 - GGCCTCCCTGGGATGTGCCCTGATCCCGGCTTTCTCTGTTCTGTCCCACCCAGGAAATT - 540
- E I

541 - GATGGCAAATCTTTGCTGCTCATGCAGCGCACAGATGTGCTCACCGGCCTGTCCATCCGC - 600
- D G K S L L L M Q R T D V L T G L S I R

601 - CTCGGGCCAGCCCTGAAAATCTACGAGCACCACATCAAGGTGCTTCAGCAAGGCCACTTT - 660
- L G P A L K I Y E H H I K V L Q Q G H F

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Fig. 23 (continued; 4/6)

661 - GAGGATGATGACCCCGATGGCTTCTTAGGCTGAGCGCCAGCCTCACCCCTGCCCCAGCC - 720
- E D D D P D G F L G *

721 - CATTCCGGCCCCCATCTCACCCAAGATCCCCAGAGTCCAGGAGCTGGACGGGGACACCC - 780
781 - TCAGCCCTCATAACAGATTCCAAGGAGAGGGCACCCTCTTGCTCTTATCTTTGCCCTTG - 840
841 - TGTCTGTCTCACACACATCTGCTCCTCAGCACGTGGGTGTGGGGAGGGGATTGCTCCTTA - 900
901 - AACCCCAAGGTGGCTGACCCCTCCCCACCCAGTCCAGGACATTTTAGGAAAAAAAATGAA - 960
961 - ATGTGGGGGGCTTCTCATCTCCCAAGATCCTCTCCGTTCCAGCCAGATGTTTCTGTAT - 1020
1021 - AAATGTTTGGATCTGCCTGTTTATTTTGGTGGGTGGTCTTTTCTCCCTCCCCTACCACCC - 1080
1081 - ATGCCCCCTTCTCAGTCTGCCCCCTGGCCTCCAGCCCTAGGGGACTAGCTGGGTGGGG - 1140
1141 - TTCCTCGGGCCTTTTCTCTCCTCCCTTTTTCTTTCTGTTGATTGTCGCTCCAGCTGGCTG - 1200
1201 - TATTGCTTTTTAATATTGCACCGAAGGTTTTTTAAATAAAATTTTAAAAAAGAAAAAG - 1260
1261 - GAAAAAAGCCACGGAGTCCATTTTATGAATGGGGTGGGGAGAGGGCACTAAAGAGCCT - 1320
1321 - CCTAAGAGAGCCTCAGGTTAGGACAGAATTGTTTGGGGAGGGAGAAAAACAGAAACAATG - 1380
1381 - AATTATAGCTGCCTCACAGCCATGTATAACAATAATTGCTCCAGGAAGGTGGGAATATTT - 1440
1441 - GCTTTTTTTTCTTCTGTAATCTCACCGTGTCCGTGTCCAGAACAGAGCTAGGCACACAGC - 1500
1501 - AGGTGCTCAATTTTTGTTTTTCGTTTAGACAGGTTTCATTCTTTACCCAGGCTGGAGTG - 1560
1561 - CAGTGGTGCTATCATAGCTCATTGTAGCCTCAAACCTCTGGGCTGAAGTGATCCTCCAC - 1620
1621 - CTCAGCCTCCTGAGTAGCTGGGACTACAGGTGCACTCTGCCATGCCGGGCTAACTTTTAA - 1680
1681 - AAATTTTTGTCCGGGCACAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGG - 1740
1741 - TGGGTGGATCATGAGGTCAGGAGTTCAGATCAGCCTGGCCAAGATGATGAAACCCTGTC - 1800
1801 - TCTACTAAAAATATAAAAAAATTAGCTGGGCGTGGTGGGTGCCTGTAATCCTAGC - 1860
1861 - TATTCAGGAGGCTGAGGCAGAGGATTGCTTACACCTGGGAGGCGGAGGTTGAGTGAGCC - 1920
1921 - AAGATCGTGCCACTGCACTCCAGCCTGGGTGACAAAGTGAGACTCTGTCTCAAAAAA - 1980
1981 - TCTTTGTGTGTGTGTGGAGATGAGGGTATGCACTTTGTTGGCCAGGTTGGCCTCGAACTC - 2040
2041 - CCAGCCAAGCAATTCTGCCTGGGATTACAAGCGTGAGCCACCATGCCTGGCCTCAAATAT - 2100
2101 - TGTTGAATGGCTAGCAGTTAAGTCTTGGGTTTATAAGCATTTCCTCAACTGTCCTCCA - 2160
2161 - AGTCCCCATAAGACAAAAAATCATAAATCCCACCTTACAGAAGAGGCAGCTGGCCCGG - 2220
2221 - CACAGAGATGCTGTCTGCCCCGGGTACACAGGGTGGCATCTGACACCCTGTCTGAGTTC - 2280
2281 - TTCACTCAGAGTCTTTAAATATAATTAGCGTATTTGACATAATGTACATTA AAAA CTATA - 2340
2341 - AACCTGTCAGCCTTTGTCTACTGCAAAGAATCCACTACAAATATTGGGGCAGGGATCTGT - 2400
2401 - TCTTGGACCATAGTAGTGTCTCCAGACCTCATGGTCTCTTTCATTAAACAACAGAAAT - 2460
2461 - TCCTCTGGGCCATCAGATGAGACCATGAGATAGAAGATTCCAAGTGAAGATTTTGTTT - 2520
2521 - CAAGTCCAGAGTCTTGCTCTGTCACTCAGGCTAGAGTGTAAGTGTGCAATCATAACTGTG - 2580
2581 - TGACAGCCTCGAACTTTTGGGTACAAGTGATTCTCATGCCTCAGACAACACCCAATAAT - 2640
2641 - ATTTTGGTTTTTTGTATAGACAGGGTCTTGCTATGTGGCTTAGGCTGGTCTTGAACCTCTG - 2700
2701 - GCCTCAAGCAGTCTCCCGCTTCAGCCTCCTAAAGTGTGAGGATTACAGACATGAGCCAC - 2760
2761 - CAAGTCCAGCCTGAAGATTTTAAAAATTATTGTTAGTAGTAGTCGCCAGAGTTACTACA - 2820
2821 - TCCAAAGTCCCTACTAAGTCTAAGTAGTCCCTACTAAGTCTAAGGCAGTTTCTCAACT - 2880
2881 - CATTAGAGTTGTTTTTTGTTTTTAAAGAAAAAAGAGGCTGGGCACTTTAGGAGACCGAC - 2940
2941 - ACGGGAGGATCGCTTGAGTCCAGGAGTTTGAGACCAACCTGGGCAACATGGGCCCCCATC - 3000
3001 - TCTAAAAATTTTAAATTAAAAAATGTTTTAACAACAAAAAGCGTTCTGGGAGTGAGGG - 3060
3061 - CTGGGGCCTGGGCGGCTCATTCATATACCTGTGCCGGTTGAGGGGTTGAGAGACAGT - 3120
3121 - TTAGAGACCCCTCCACTCTAGGAATCCACCTCGAGAGATAAAGGTCCCGGCCCTAGCCAC - 3180
3181 - ACCCCCAGGACACGGCCAGAGGCCACCTCCCTAGGCGGGTCCCTCCCCACCGCCAGGTTT - 3240
3241 - CTGGAGCGCGTGCGGCGCGTGTGACAGGGGTAGGGGGCGCAGGCGCGCGGACTGGAGAGG - 3300
3301 - CGCGCCCTCCCGCGTGTGAAATTCAAAGAGGGCGAACGGCCCCCGGCGCGGCGGCGG - 3360
3361 - GCTCCGGTGGAGAGGTCAAGGCAGGGGCCAGTCCGAGGCTCCCGGGCGGGGTGCAACCC - 3420
3421 - GCGGCCAACCTGAGCAGCAGCGAAGCTTAAAGAGCTCAGGTTCCCGCCCCCGGCCCTA - 3480
3481 - CCATGGCTACAGAGCAGTGGTTCGAGGGGTGCTCCCCCTGGACCTGGAGAAACACCGC - 3540
3541 - CTCCAGACGCCTTGGAACCTGGGACGCCGCCCTGCGGAGACCCCTCCAGGTCGACGCC - 3600
3601 - CTGGCAGGCCTGGGAACCCATCTGAGCCGGATCCTGAAGATGCCGAGGGGCGGCTGGCTG - 3660
3661 - AGGCCGGGCCTCCACGTCTTCCCCAACCTCTGGTCCCCCGGCCTGGGCCAGCACCTC - 3720

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Fig. 23 (continued; 5/6)

3721 - CCCGCCTATCCCTGGACACTTTGTTTCAGCCCCATCACCCAACAGCTGCGCTACCTACTGA - 3780
3781 - AGAAGGCAGATGATTTCCAGAGCTACTTGCTCTACAGGTGATGCTGGACAGGGTCCCAGG - 3840
3841 - TCCCCATGGGTAAAGGAGACTTGGAGGGGAGCGACAGGATGGGTGACACACACCAGGGTC - 3900
3901 - GCAAAATTACAAGCGCTAGGAGCCAGAGGGAGACAGTGGGAAGAAGCTAGCATATTAGAAT - 3960
3961 - CCAGTTTAAGAGAATGAGGAAGACTGTAGAATTGCGGGTAGGGGATGGCTGCTATTACTG - 4020
4021 - TCGTGGCAGGGTGGGCCTGGGGTTGTCAAGTCTCTAGGACTTTTTCTCCAGTTTTTAAG - 4080
4081 - TGCTGTCTTACATTTTGTAGCCCTGTGCTGGCTAAACAAGACCCACCTGAGCCAACTTGG - 4140
4141 - CCTGCAGGACATCAGTTTGTAGACTCCAAAGGATAATGTGATTCCCAGACCAGGTTTCCCT - 4200
4201 - GTGACTCTCAATTTTCAGTGTCCATTGGAATTTCTAGGAGGCTGGGTGGGGTTGTTTGC - 4260
4261 - GTGTTTGTTTTTGTAGATGGAGTCTCACTCTGTGCGCCAGGCTGGAGTGCAGTGGTGCAAT - 4320
4321 - CTCAGCTCACTGCAACCTCCGCCTCCCGGATTGAAGCAATTCCTGCGCTCAGCCTCCCGA - 4380
4381 - GTAGCTGGGATTACAGGCGCCCAACATGTGTTGCCCGGCTAATTTTTTCTTTTCTT - 4440
4441 - AGTAGAGACAGAGTTTACCATCTTGCCAGACTGGTCTTGAGCTCCTGACCTCATGATC - 4500
4501 - CACCCGCTTGGCCTCCCAAAGTGTGGAATTACAGACGTGAGCCACCGCGCCTACCCGA - 4560
4561 - GGCTGGGTTTTTTTGTGTTTTGTTTTGTTATGTGTTTTTTTTGAAATGGAGTCTTGCTCT - 4620
4621 - GTCACCTAGGCTGGAGTGCAGTGGGGCGAACTCAGCTCACTGCAACCTCCGCCTCCCAGG - 4680
4681 - TTCGAGGGATTCTCATGAGGCTGTTTTTTTTTTTTTAATGAGACAGGGTCTCGCTCTGTC - 4740
4741 - ACCCAAGCTGGAGTGCAAGTGGGGCAGTCATAGCTCACTGCACCCTCGAACTCCTGGTCT - 4800
4801 - CAAGCAATCTTCCACCTCCCCTCCTGGGTAAGTGGGACTACAGGTGCCACCATGCCCAGC - 4860
4861 - TAATTATTTTTGTGTAGAGATGGGTTCCTGTCTATGTTGCCTAGGCTTGTCTGGAACCTCCT - 4920
4921 - GGCTCAAGCAATCCTCCAGCCTCAGCCTCCCAAACTCTAGGATTGCAGGCGTGAGCCA - 4980
4981 - CTGTGCCCAGACCCTGCAGGAAGCTCTGGGTCTAAGTGTGTGACACTCAGGTGTCAGC - 5040
5041 - ACTTTAAACAAGTGTTCCAAATGGGTTTGATGCAGGTAACAGAAAGATGTTTCAGAAAAG - 5100
5101 - ACCTGAAACTGGGGGCTTTTCTAATGGGTCAAAGCCAGGGATACAGGTTGGGATTGAGTA - 5160
5161 - GAATGGGGAAAACTGCGGGGTGGGGAGGGGTGTGAGGGATTCCAGGCAAAGGCCCTT - 5220
5221 - CTTCCCTCAGCAGAGACCAAGTACAGAAGGAGCAGCTGGCCAAGGCCATGCCACCTTCT - 5280
5281 - TACAGATGTGTGAGCCCTACTTCTGTACCTGGAGGCAGCCGCGAGAAGCATACCCCCCA - 5340
5341 - TCTATGGACCCCTGCAGGAGCTGGTCCGAAAGGGGGTGTGTGGAGGTTTCTTAGACCCCA - 5400
5401 - CGCCCTTTCTTCTCGCAGCTCTGAGCCTGTGGGGATGGTGGAGGGGAGGCCACTCCT - 5460
5461 - CGCAGGCCAGCTGATCTCACTGTACCCCTCCTGTATGCAGCTGTAGAGATCTCCCAA - 5520
5521 - CAGCTGACCTGCGCCTGGAACAGCTGGTCTCATGTACGCTTCCTTTGGGTTTCGTGGAC - 5580
5581 - CTGGAGGAGATGAACCCCTTAGGTAAATGGTAGGAGACTCAGATGGGGGGATGAAGGA - 5640
5641 - GTCCAAGGCCAGCCTCACCCCTCCATTCTCTCATGTCTCGCCAGCATCTCCTGTTTCTT - 5700
5701 - TTGCGGGAGGTTCTCCATCAGCCTGTCCCATGAGGTCTCCATCTTCAGATACTGTGCCCC - 5760
5761 - AACCGCCTACACTGCCAGCCGCTTCCCCGCTACCTCTATAAGAAGATGCGCTGGCACCT - 5820
5821 - GGAAGCCACCCAGAGGCCCTGGTGGGGACAAGATTCCCTTGTGGATTAGTAAGTCCT - 5880
5881 - CTTACCCAAATCAAAGTCCTCCCTTTCTATGATGAATGCCAATATGACCCTCCAAACCG - 5940
5941 - TCACCAGCAAAGTGAAAAGTGAGCCAGGGCCGAGGCAGTGGCTCACGCCTGTAATCCCA - 6000
6001 - ACACTTTGGGAGGCCGAGGCAGGAGGATCACTTGAGCTCAAGAGTTTGAGATCAGCCTGG - 6060
6061 - GCAAGATGGCAAGACCCTGTCTCAACAACAAAGAAATTCGCCAGGCGTGATGGCTGGCAC - 6120
6121 - CTGTAGTCCCAGCTACTTGGGAGGCTTAGGCAGGAGGAGCACTTGAGCCCAGGAATCAAG - 6180
6181 - GCTACGGTGAGCTGTGATTGTGCCACTGCACTCCACCCTGAGTGGGAAGCAATAATCTGTC - 6240
6241 - TCTTAAAAAAGAGTGAACCAGGAACTAAAGGCTTTTGAAAGGCTACCTCTATT - 6300
6301 - TTCTTAAACCCACCCTCCACCAAAATAAAGTTCTCATCTTAAAGTAGGCTGGCAGG - 6360
6361 - GAGAAAAGGCCCTGGAGTCACATTCTACCTGAGAACCTCAGGGCAACTTCTGATGAGTT - 6420
6421 - CCCACCTCAACTCCAAAATTAAAGCCCTCAACAGAAGTAGCTAGGAAGCTGATCACTTCT - 6480
6481 - AATTACAGCTCCCTCCCTCCTAGCTACTTTCTGTGCTATCGAGATACTTGGGAAGACAC - 6540
6541 - AGGCCAGAGTCCAGCCAATTCGTGCCACAGATCCAGAAGCTGTGGTCCATCGGCCGATG - 6600
6601 - GGTGCCCTTAGGACCAGCCGAGGATGACCTTTATTTCATGGTAGGAGCTAGGGCAATAGCA - 6660
6661 - ACGTGGGCCTGGGAGCTGGAGGGGGAGGCAGAACCCACCAAGACAAATCCACCTTCCCA - 6720
6721 - AACACTTTGCTTCCCTTAGTAGTGATAGCATTTTATTGTGCCCTGAAAAGCACTTCATGC - 6780
6781 - AGACCCAGTAACAACCCATGGAGATCTATGCTATTGGCCCCATTTAACAAAGAAAACAG - 6840
6841 - GGTGCTCAGAGAAGTTGTTACCTGCCAAGGACACACAGCTAGCAGAGCGAATGGACAGG - 6900
6901 - TCAGGACCAGTTATTCAGCCTCTAGGAGCCATTACTAAGTCTCTGATCAACAAGGAAACA - 6960
6961 - AGTTTCCCCCGGGGTTTTTCCACCCGAGCTGAAACAAAGCCTCTTTCACCTGAGCCT - 7020

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Fig. 23 (continued; 6/6)

7021 - CTCAC TCAAAGGGAGGGACTCCCGAGGGGAGGGGGCACTCAAGTCCAGGCCTGTCTATC - 7080
7081 - CCTGGCCCCCCCCACCCAGGATTTTGTGCCCCGACCGCTTGGGGACTACCAGCAGCTGCT - 7140
7141 - GACCATCGGCTTCGAGGAGCCCCACGCCCACGCTGGCCACCGACCTGCTGGTGCAGATCCT - 7200
7201 - CACGGGCCAGGCAGGCCAGGCCCGGCCTCCGAGCGCAGCCGGGCCTGCGGGGTGGGCAGC - 7260
7261 - GCAGGGGTCTTGAACCTGGGGAAGAGGGTAGGAGCTGGAACCTTACAGTTCCAAACTCCA - 7320
7321 - GAATAGGGGGCAGGGGAGGGGCTCACTCGTTCTCGCAGTGCAGCCGGGCCTCGCCTTCCA - 7380
7381 - AAGGGCCAGGCCGAGCTGACCTGTCTGCACCGAGTCCGGCTTGGCCGTGGGGCCCTGAAT - 7440
7441 - GCGGACACGTCAGTTTTTGTGTTAAATAAAAAGAAAGAAAGAGGTACAGGCTCAGCGTCCG - 7500
7501 - CTGCGAATGCCGCGCCCCCTCCCCCGGGGGATTGCCCCACCCACTCGCGTGGCCTTCTGGG - 7560
7561 - AAATGTAGTCTTTTTGAAAGAAGCCTGGAATTCGCCAATAGGCGGACGAGAGTTTGGCGCA - 7620
7621 - TGCGCATAGGCGCACATGAAGCAAAAAGGGAAGTGGTGCCCGTCAACACCGGAACCCAGA - 7680
7681 - AAAC TGCAAGTTTAGGGTACCGGGGAAATTCAACGTCCACTGGAGGAAGAGACTTAAGGC - 7740
7741 - TACGCCCCACTCCCATATTTTGACCCGGAAGTTATTTATTTTAGCGTAGAAGACTACTTTT - 7800
7801 - CCCGACGCGCCCCAGGAAAGTGCCCTCGATCAGTTTCCTAAGGGCCCGAGTTAGACTTTT - 7860
7861 - TTTTCTCTTCCAGCTTTTGGGACTTGGGGGCGGACAGGTCGTCTCTTTCTTGGGGTA - 7920
7921 - TCCGGGGTGCGGACAAGGTGGGAGAGCCCTACGGTATCCAAGCTT - 7965

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Fig. 24 (1/9)

1 - CAACATGCTTGGGACCAGAAGTGTTCCTCAATTTGGGATTTTCTCAAATTTTACCGGTTGA - 60
61 - GCTTCCCCAATCTGAAAATCTGAAATCCAACATGCACGGCTCTGAAGTCTTTCACTGAGC - 120
121 - CTTTGGGGGAAATATTTAACATCCTAACAGCCCTAAACCAACGCTCAATTAGCACAAACAG - 180
181 - TTTACAATCTTCTCTACCCACAGCCTGATGCGAGGCTCTGGGACTAGACTATTTAGCCAA - 240
241 - CAGTTCTTGCAAAATTAAGTACTGACTTATAAGTAAATAGTAATTTCAACACCTCACTGCTAA - 300
301 - TGCTGTAACAACTCTGCAGACCTAGGGAGCAAGTACGGTTTGCAGAGCACTGGGAAGGCT - 360
361 - CTGAAGTGACCTTTGAACTGGGCCTCAAAAAATTTTGGGTTTGGCAAAAGTCAAATCTCT - 420
421 - TAGGCTTCAAATTCAGGCACAAGGATTGTTGGGTTTGATTTCATTATCCAGAAGCAATG - 480
481 - GGGATACAGAATTGTGATCTCATGTGTAGGGAAGTGTGGGGGTTTTTCTACTTTAACCC - 540
541 - CAGTGAGACTTTGTAGAGTGTGGGGTAGAGAAAAGGCTCATGAATATGCCTGAAGCCTAA - 600
601 - CTCAGCACCTTTCTGAGGAAGTACTGCCAAAATGGTAATGGAGAGGGGAAAATATGACC - 660
661 - TACTTTTACAAGTTACCTTGACTGCCTCAGGGAAACCTGCTGTGGTAGTGTCTTCTCTGG - 720
721 - GTGAAAGACCAGGTAATTACCTGGGTGCTGGTCTCAGACTTACCAGTTTTGAATCCCTGT - 780
781 - TTTAACCACTCACTATCGATATGACCTTGGATAAGTTACCTAACCTTTCTCTTACTGTCC - 840
841 - TTTTCCGTAAAATGGGGATAACAGATAGTAGTTATTTCTATGAGTGGTTATGAGAACCAA - 900
901 - GCTATTGAGAGTACGCGGAAAGCACAAGTCAAGGAACTGCTATTGTTATTAATAA - 960
961 - GCCTCCTTTTGAAGAAGGACATTGAGGCCCAAGAGAGAGAACAAGCAACGTCAGCCACACAG - 1020
1021 - CAAATCCGTGATGAAGTTGGGACTGGAGTATGGGTCTCCTGAGTCTCAGCCAGGACTCT - 1080
1081 - ATCCCTCTTCCCGAGTCTCGGAGTTCCTCGGATGGAGTCAATTTGTTTACGGCCAGGGA - 1140
1141 - GGAAGGTTTGTATGGAGGCTGCAGGAAACAACAGCCAGGCGCAAGGCTTTGGGAGTTGAA - 1200
1201 - GCATAGCTTCTGCGAGATAGAAACAAGGTTGACATGGGCACTCGTGCAGAATGACGGGCT - 1260
1261 - CCTTTTGGAGTCCCAGGACTACAGTCCCTTATGCACCTTGGGATCTGCGGCTAGCCCTG - 1320
1321 - CGTAAAGAGGGACGCGTAGTCTTTTCCCTGCCCCGCCCTGCGGGGCGCCCGCTCCGAG - 1380
1381 - GCCGCCCTCGCTTCGTCCTTCCAGCAAGCTCCGCGCGCGCGCGGCTATTGATTGGCTG - 1440
1441 - AGGCGGGAGCAGGCGGCTGGCCGCGCAGTACTCGGGGTTTCCGGTGCAGAGGCCAGAG - 1500
1501 - GTGGGGAAGCCATCGGACGTCGGCGGTGAGTACGTGCAGCGCGCGCGGCTGGGCGAGAC - 1560
1561 - TATTTGAGAGTGTGCGGGCCGGATGTTCTCGGCTGTGGGGAATCACGCCAACTCCCC - 1620
1621 - GCGTGGGCGCGGGGCTGTCTGGGATATGCGCATGCGCGGGCGTGCCTCGCGGCTTGAGG - 1680
1681 - GCGCGCGGGGCGTGGGTGGCTGCGCGCGCGGGGGGCGCACGTGGGGCCTGAGGGGCGGGG - 1740
1741 - GCGGTGCCGGGAGTCCCGCCACGTCACTCTCGGCGCTGAGCCAATCCCGCGCCCGGCT - 1800
1801 - GCCGCGAGGGGGCCGGTTGTGCGGGAAGTGGCTCCAGGGAGAAGAGGCCTCTTCCCTCA - 1860
1861 - CCCGCTGTGGGAGCTGCGCCCCGAAAGCCTGCCCCGGCACGTGGGCTCTCCTGACCCGC - 1920
1921 - CAAGACCAGAGAGCCGTTGGCGCCCTCCGCGCGGGCCTGCCGCTCCGTTTATTTTAAGAA - 1980
1981 - GCTTTGTGCGCCTGCTGTGGGGATTTCTGATCCAGGCTGCGAAGAATTTCAAGTCTGGA - 2040

2041 - AAATAGCAACTGTGTTTGTCTTAAAGGATCTTCTCCTGACCCAGCATCGCTCATCACA - 2100
- M

2101 - TGAAGAACCAAGACAAAAAGACGGGGCTGCCAAACAATCCAATCCAAAAGCAGCCAG - 2160
- K N Q D K K N G A A K Q S N P K S S P G

2161 - GACAACCGGAAGCAGGACCCGAGGGAGCCAGGAGCGGCCCAGCCAGGCGGCTCCTGCAG - 2220
- Q P E A G P E G A Q E R P S Q A A P A V

2221 - TAGAAGCAGAAGGTCCCGGAGCAGCCAGGCTCCTCGGAAGCCGGAGGGTGTGTGCCAGC - 2280
- E A E G P G S S Q A P R K P E G

2281 - TCTGCGTTGCCAGCGGGCAGGGGAGGAGCTGTGGGGTGGCCTCGCTTCTGGACTTACA - 2340
2341 - GGCCGAGGCCAGGTTGTCCGGGAGGAGAGATGTAGAATGAGAGGACAGTGTGGGGGCC - 2400
2401 - GCGGTCCCCCTGCGCTCTGGCGAGTTGGCGGAGCTGCCCCCTCTAAGCACAGGAACAGA - 2460
2461 - GTTCTGGAGAGAAGCTCCGACGGGATTAAGTCAGGTGGCAGCCAAACGAGGCACCCAGTC - 2520

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Fig. 24 (continued; 2/9)

2521 - AGGAAATCCAGGTCCCGTTAGAAACACCTCAGCCACCAGCAGCTAACTGCCCTTCCTGTT - 2580
2581 - TGAGGCATTTCTAGAATGATCTGAATGGCAAGAAATGGGTTTTGTGGGGGGAAGGAGAT - 2640
2641 - GGACTAGAAGTTGCTCCGTGCCATCCCTGTGTGCTGATGCTTTACATACTTTTATGATCT - 2700
2701 - AACAAATATGTTCCGGGTGGTAGTGAGAAATAGTTGTGCATTTTACAAGTAAACAGACTT - 2760
2761 - AAAGAAGTTAGGCAACGATTACTATAATTTCTTGATTTAAAAGATGTTTCGAATCTAAAT - 2820
2821 - TCTGACAGGAAGTATTTGCTGAATGATACTCCATTCTTGCTTCTCAGTTTCCATAAAA - 2880
2881 - AAAAAAGTTAGGCAACATTTAACTCAAACCTGATGAGTTTGGCTGGGCCTGAAAAATCCCA - 2940

2941 - ACCAGTGGTATAATCGTCTTCTTTCTCACTCTACCCCTCATCCTCTCCTGCTGTAGGGGC - 3000
- A

3001 - TCAAGCCAGAACGGCTCAGTCTGGGGCCCTTCGTGATGTCTCTGAGGAGCTGAGCCGCCA - 3060
- Q A R T A Q S G A L R D V S E E L S R Q

3061 - ACTGGAAGACATACTGAGCACATACTGTGTGGACAATAACCAGGGGGGCCCCGGCGAGGA - 3120
- L E D I L S T Y C V D N N Q G G P G E D

3121 - TGGGGCACAGGGTGAGCCGGCTGAACCCGAAGATGCAGAGAAGTCCCGGACCTATGTGSC - 3180
- G A Q G E P A E P E D A E K S R T Y V A

3181 - AAGGAATGGGGAGCCTGAACCAACTCCAGTAGTCAATGGAGAGAAGGAACCCTCCAAGGG - 3240
- R N G E P E P T P V V N G E K E P S K G

3241 - GGATCCAAACACAGAAGAGATCCGGCAGAGTGACGAGGTGCGAGACCGAGACCATCGAAG - 3300
- D P N T E E I R Q S D E V G D R D H R R

3301 - GCCACAGGAGAAGAAAAAGCCAAGGGTTTGGGTGAGCAGAGGGCGGCTCTTTGTGAAGC - 3360
- P Q E K K K A K G L G

3361 - TGGTGAGGAGAGGGAGTTTGGACTTGACGTTCTCTGGGCCAGTCTGTTCTGCCAGGATTC - 3420
3421 - AAAGGAAAACGGTACTTCTCAGAGCAGCAAGTCACTCTAGTCTAATCAAAGCCAGGGATG - 3480
3481 - TGGGGGCCACGGCATAGAGAGATGCAGGAGTTACCAGCACAAAGCCTTCTGGGTTTTGGA - 3540
3541 - GCAACTGGAGCTTGGCATGGGACCTGTTCTCTCTTTGAGAAAATGGAGACGGGAGGCTAG - 3600
3601 - GGTAGGCTCCTGTGCCAGCCAGTACTACCTGCTGTGTGACCTTGGGTGTGTCCCTTCTCC - 3660
3661 - TCTCTGGGTCTTAGTTTATATTTCTCTTTACAGTAAGAAAATTAGACTAGGCCAGAGTTG - 3720
3721 - AAAACCCAAATATCTGCATAAGCTGGGCTTGGCCATGGGGCCACCTGAAGATGGAGGCTT - 3780
3781 - TACTGCTTCCCTGATTAGTTGCTCTCACTAGCCAAGTGAAGCAGGCAAACTACAGGCT - 3840
3841 - GGGTGCAGTCAGGCTTTTTTTTTTTTTTTTTTTTTTTTAAATAAAGAAAAGCCAGAAATCT - 3900
3901 - AGAGTTATGTGAGAACTCTAGATTTTTTTCATAGTTAGCAGCTAAAATGGTAAGAGCCAAA - 3960
3961 - CAAAACCCATCCGTGGGTGGATTTGGCACACATGCCTGCGAATTGCAGTCTCCATGCTG - 4020
4021 - ATCTCTTGGGCCCTTCTGGGGAGGCAGAGGGAAGGCTCCCTGACTCAGTCACAGGCAATG - 4080
4081 - GGGAATAGGCAGTGACAGTCATTTTACAGCAGGGTATGTATGTTTAAAGAGTCTAGGCCGG - 4140
4141 - GGTGTGGTGGCTCACGCCTGTAATTGCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACC - 4200
4201 - TGAGGGTTCAGGAGTTTCGAGAACAGCCTGGCCAACATGATGAAATCCCGTCTCTACTAAAA - 4260
4261 - ATACAAAAATTAGCTGGACATGCTGGCACACGCCTGTAATCCCAGCTACTTGGGAGGCTG - 4320
4321 - AGGCAGGAGAATGGCTTGAACCCGGGAGGCAGAGGTTGCAGTGAAGTGAAGTTGTGCCAC - 4380
4381 - TACATCCAGCCTGGGTGACAAGAGTGAAACTCTGTCTCAAAAAAAAAAAAAAAAAAGAATCTA - 4440
4441 - GAATCTAAGTCGAGTGTCAATTATCCATGTTTTATTCCTATTCCCTTTTCCCCTTATGT - 4500
4501 - ATCCTCTTACTTTAAAGAGGAAGCTTTAAAAAATCTTAGGGACGACTAGGCAGAGTGGCTC - 4560
4561 - ACACCTGTAAGTCCAGCACTTTGGGAGGCCAAGGCAGGCAGATTATGAGGTGAGGAGTTC - 4620
4621 - GAGACCAGCCTGGCCAACATGGTGAAACCCAGTTCTACTAAAGATACAAAAATCAGCC - 4680
4681 - GGGCGTGGTGGCACGTGCCTATAATCCCAGATACTCGGGAGGCTGAGGCAGGAGAATCAC - 4740
4741 - TTGAACCCGTGAGGCAAAGTTTTCAGTGAGCTGAGATCATGCCATTGCACTCCACCTGGG - 4800

Fig. 24 (continued; 3/9)

4801 - TGACAGGGTGAGACTCCATCTCAAAAAAGAAAAAGGAAAAATCTTAACGTACATACA - 4860
4861 - TGGAAAGATCATCTTTTACCCCCACCCCCAAGTGGAGTTTGTCTTGTGCAC - 4920
4921 - CCAAGCTGGAGTGCAGTGGCGCATCTAGTCCCTGCAAGCTCCGCTCCCGGGTTACAC - 4980
4981 - CCATTCTCCCTGCCTCAGCCTCCCGAGTGGGACTACAGGCTCCTGCTACCATGCC - 5040
5041 - GGCTAATTTTTTTGTATTTTTTTTAGTAGAGACGGGGTTTCATCTGTGTAGCCAGGATG - 5100
5101 - GTTTTGATCTCCTGACCTCGTGATCCGCCCGCTCAGCCTCCCAAAGTGGTGGGATTACA - 5160
5161 - GCGCTAAGCCACTGCACCCCGCTTTTTTTTTTAATTAATTAATTTTTTTAGACAGAGTC - 5220
5221 - TCGCTCTGTCCCAAGCTGGAGTGCAGTGGCGGATCTGGGCTCACTGCAACCTCCGCCTC - 5280
5281 - CTGGGTTCACGGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCTCCTG - 5340
5341 - CTACCATGCCCGGCTAATTTTTTTGTATTTTTTTTAGTAGAGACGGGGTTTCACTGTGTT - 5400
5401 - AGCCAGGATGGTTTTGTATCTCTGACCTCGTGATCCGCCCGCTCAGCCTCCCAAAGTCC - 5460
5461 - GCCTCAGCCTCCCAAAGTGTGGGATTACAGGCGTAAGCCACTGTACCCTGCCTTTTTTT - 5520
5521 - TTTAATTAATTAATTTTTTTAGACAGAGTCTCGCTCTGTCAACAGCTGGAGTGCAGTGG - 5580
5581 - CGCGATTTGGGCTCACTGCAACCTCCGCTTCTGGGTTCAAGCGATTTTCTACCTCAGC - 5640
5641 - CTCGGAGTAAGTGGGACTACAGGCGGTGCCACCAAGCTAATTTTTTTGTGTAT - 5700
5701 - GTCTTTAGTAGAGATGGGGTTTACCAGTGTAGGATGGTCTCGATCTTTGACCTCGTGA - 5760
5761 - TCCGCTGCCTCGGCCTCCCAAAGTGTGGGATTACAGGCTAGAGCCACCTTGCCTGGCC - 5820
5821 - GAAAGTATCTTCATTTTAAAGTTCAGTGTGGCTACTCTGTGACAAGAGTTTAGTATT - 5880
5881 - TCTCAAGGAGGCTAAGATACCTATTCCTTTTGGATCCTACCTCTATCAGGAGGGTGGGC - 5940
5941 - CTTCTTGCATTGAAACAGTATGAAACAGTAGCCCTGAATTCATAAGTGGGACACCTTT - 6000
6001 - CTTCTATTGGTAGAGCAGGCAGTTTTTTTCTCCTGCCAATGGTGCCTACTAAGGAGATTT - 6060
6061 - CACTAGGGTACAGTCGTTTCATTTGATAAGCATTTGTTGAGCATATCCTCTGTGATGGTAC - 6120
6121 - TATGGACAGTACTGGGGCTATAGTGAGGGCAGGATTGAGTTGGTCCTTATGGCAAGGAAG - 6180
6181 - GCAGTAATCAACAAGCAAAATATAAAGTATGATGGGAGGGCTGTCTTCAGCACTCATG - 6240
6241 - AGTGTGAGCCCAGGCCTGGAGGGACACCTGGAGAAGAGGGTGCATGTCTTTGCTCCTGT - 6300

6301 - GCTTTTCAGGGAAGGAGATCACGTTGCTGATGCAGACATTGAATACTCTGAGTACCCAG - 6360
- K E I T L L M Q T L N T L S T P E

6361 - AGGAGAAAGCTGGCTGCTCTGTGCAAGAAGTATGCTGAACTGGTCAGTTCCCCCTCCGCG - 6420
- E K L A A L C K K Y A E L

6421 - GGCACCTTCCCTGCGTTGGGAAAATCAGCATGCCACCTGGTGTAAAGTTGGGGGTGCAGA - 6480
6481 - GTCAGTAGGTGGCTTAATTCCTGTTTCAGCTTTTCTCTGAACATATCTGTTAAATGGGGAA - 6540
6541 - TCACTTCCAGCCAGCCTCTTCAGGGCTGTGCAGCAAGAGGAGAAACTGCATATTCCTTGA - 6600
6601 - AAGAAATTTCTCAAAGAATGATTCCAAGGTGGTAGAGCCCTTGTCTCGCCTGAGTCCA - 6660
6661 - AGACACCTTGTGATCTTGATGCTTCTCCTCAAATACAGATGCATAGAGCCATTATCACA - 6720
6721 - GTTAATAAACTAACACTAGTCACTTGATACTTTTCCCTTTTACTCCAGAGCAGTCTTCT - 6780
6781 - TGTCACTGCCTCCTCATATTCCTCATGACATTGACTTTTAAACAGAACTAGACTAGCTGT - 6840
6841 - CTTGTAGGATGCCCCCTTCTAGCTTTGTCTATCTCTGTGGTATCATTTTACTTCTTTACCT - 6900
6901 - CCTGGTACATGTAAGTGAAGTAGAAGTTAGCTCTAAAGCTTGATCCAATTACAGCTTCAAC - 6960
6961 - TTTTGTACAAGAATTCCTCATAAGTACTTCATGTTCCATCACAATAAATGCAAAGCATGC - 7020
7021 - TCTTCCCACTTTGTTGTAACATTGTTCAAGTGGGTTGGGGGTGGGGCAGCCAGATTCTTCC - 7080
7081 - ATCATCAGGTCCCTTGTGAGAAATTTGAACATAACAGATTTTATCCATTGATGGTCACGCC - 7140
7141 - GTGTATGTATGTATGTATGTATGTATGTATGTATTTATTTATTTATTTATTTTGTAGAC - 7200
7201 - GGGGTCTTGCTCTGTGCGCCAGGCTGGGGTGCAGTGGCACGATCTCGGCTCGCTGCAAGC - 7260
7261 - TCCGCTTCTGGGTTTCATGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGTCTACAG - 7320
7321 - GCGCCCGCCACCATGCTAGGCTATTTTTTTTTTTTTTTTTTTTGTAGTAGAGACGGGGT - 7380
7381 - TTCACCGTGTAGCCAGGATGGTCTCGATCTCTTGACCTCGTGATCCGCCCGCCTCGGCC - 7440
7441 - TCCCAAAGTGTCTGGGATTACAGGCTTGAGCCACCACGCCTGGCCTATTTATTTATTTATT - 7500
7501 - CAGAGTCAGAGTCTCGCTCTGTACCAGGCTGGAGTGCAGTGGCGGATCTCGGCTCATT - 7560
7561 - GCAACCTCCACCTCCAGGTTCAAGCGAGTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGA - 7620
7621 - TTACAGGTGCATGTACCATGCCTGGCTAAATTTTGTATGTTTGTAGTAGAGACAGAGTTT - 7680

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Fig. 24 (continued; 4/9)

7681 - CAGTATGTTGGCCAGGATGGTCTTGATCTCTTGGCCCTCGTGATCCGCCCGTCTCAGCCTC - 7740
7741 - CCAAAGTGCTGGGATTACAGGTGTGAGCCACTGTGCCTGGCCTCTAAGTATTTATTTTAA - 7800
7801 - AATTAATTCATTCCACACACATTTATTAATATTTTCCTGTAAGGAACCTTACTCATCTTT - 7860
7861 - AAAATGGGGAATGTCATACCTGCCTAATGACATTCTTGTAAGGATTAAATAAAAGGTATA - 7920
7921 - AGGAAGATAAGCACCCCTTTTGGAGTGATCCAGCCAGGGGAAAATTGCTGATGCAAGAGAG - 7980
7981 - GAAATGAGTTGCTAGAGTGGTGTGTGAGTAGAGGAGGGGAGCTGAGGCCTGCCCAAGAA - 8040
8041 - GGGGGCTTGGCTGTGGTAACACATGGCTAGGTCTGTGTGACTGGAGGAGAGGACGGGGC - 8100
8101 - AGGTGGACTGGTAGATGTGCAGCTTGTGCCCTGATTCTCTAGTTTCTTCTGTGTTTTGA - 8160
8161 - GATTTGATGAGAACGATGAAATAGTTGTCTGGAAGGAGAGGAGTGTGAATAGCATATGCA - 8220
8221 - TTGTATTGGGATTGCTGGTCTTCCTGAAATTGGTGGCCATGAATTTAAAGTGAGACTCTT - 8280
8281 - CAAGTAGGGTTGTTATAGTACTGGTGTAAGCAGGAAGGTGCTTTACTAGGGTTGCAGTA - 8340
8341 - CTACTGGGAAGGGCCAAGAGAGTTGAGGCTGTAAGAAATCCAAGCCAGGTAATGTAGTT - 8400
8401 - ATTTTAAAGGAGAGTGGAAGGATGGTTGAGTCAATGGATTGGAGGTCCTATAGGGTAAGA - 8460
8461 - GACTTTCTGAGGATCACAGATACTGATTGGAATGAGCTAAAAAGATAGGTGATGGTAGTC - 8520
8521 - CTGGACTGGGATGCTGGAAATTGAGATAGTGGGTGTGCTCTCTGGTAGTGACAAATCTAG - 8580
8581 - ATCTGCGCTGTCCAAGATAAATTCGTCTCTAGCTAATTGACATGTGGCCAGTTTGAATTT - 8640
8641 - GAACATGCTATAAATGTAAGATACACATCAGCTTTTGAAGACTTAAGCAAAAACAAAGAA - 8700
8701 - TATAAAACATCTTTTGTGAGAGAGTGTCTCAGTCACCCAGGCTGGAGTGCAGTGGCGTG - 8760
8761 - ATGTCCTGCTTCCAGGTTCAAACGATTCTCCTGCCTCACAGCCTCCTGGAGTAACTGAGA - 8820
8821 - TTACAGGCGCATGCCACCAACTGGCTACTTTTTTGTATTTTTTTTTTAGTAGAAACGGT - 8880
8881 - TTCACCATGTTGGCCAGGCTGGTCTTGAACCTGACCTCAAGTGATCTGCCTGCCTCAG - 8940
8941 - CCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACTCCCGGCCTCACTTTTTTACAT - 9000
9001 - TGATTCCGTGTGAAATTGTAATGTTTTGGATATTAGGTTAAATACATATATTACTAAAA - 9060
9061 - TTAATTTACCTGTTTTTTTACTTTTTTTAGTGGCGCCAGTAGAATATTTTTTAATTACTTAT - 9120
9121 - GTGGTTTGCATTATATTTCTGTTGTACAGGCTGGATAGGGTCATGGGAGGGGAAGTGAAG - 9180
9181 - CTGGGGAAGGAGTGGGTTTGTGGAAGAGGTGATGGACTGTGAGGCCAGGGAGTTAGAAG - 9240
9241 - GATTATCTGTTGATACTGAAGTGGCCACAAATGAGAAAAGTAATTGTGTTGGGGAGAGCG - 9300
9301 - CTGATGAACGCAGCGCTAACGTTTTGAAGGAATGCGAGGGAGCGATGGGGGTCTGTCTGT - 9360
9361 - TAATAGGCACAAGGTACGGTAGCAGGTGGTCTCATCCTCGGGCATGAGTGTCCAGCAAGT - 9420
9421 - TGGGGAAATGCAACAGCTTGAAGTGGCTCTAGTGGCCCAGAGTCAGAGCTGGAATAGGAA - 9480
9481 - TTGGCATCTGCTGGCTGTGTGGCCCCCTGCTTGCCCTAGTGAGTTACCATTTCTCTGTCCC - 9540
9541 - TACGGTGGAGCCTTTGGGGTTATTGTGAGTTTCATGGGAGGAGCGTGAAGCACCGGCACA - 9600
9601 - GCATCAGCCCATGAGAGTGCTCCTGGCCTGAGAGGGTAAGGGTCAGGGCAGCTCAGGAGA - 9660
9661 - CCCTAGACCTGCATAGTGATCCCCCACCAGGAAGGCCCCACAAGATGCTCACCTGCCCT - 9720

9721 - CCCTATCCCTGTCCCCAGCTGGAGGAGCACCGGAATTCACAGAAGCAGATGAAGCTCCTA - 9780
- L E E H R N S Q K Q M K L L

9781 - CAGAAAAAGCAGAGCCAGCTGGTGCAAGAGAAGGACCACCTGCGCGGTGAGCACAGCAAG - 9840
- Q K K Q S Q L V Q E K D H L R G E H S K

9841 - GCCGTCTTGGCCCGCAGCAAGCTTGAGAGCCTATGCCGTGAGCTGCAGCGGCACAACCGC - 9900
- A V L A R S K L E S L C R E L Q R H N R

9901 - TCCCTCAAGGTAGGCCTGGGCCCCCTGGAACAGGTGACTCTGGTTTCCCTTGAAGTTCCACT - 9960
- S L K

9961 - TAATGTTTTCTTTCATGGGCTTTCTCTTAAAAAGTAGTGCAGGCTAGGGCCAGGCGCAGT - 10020
10021 - GGCACACATAAGTGATTAAAAATCTTCTGGCCACTAAAAACAGAAATTAATTTTGTAGTAA - 10080
10081 - TATACTTAACCAATATCCAAAACATTACAATTTCAACATGAAATCAGTGTAAGGAGCA - 10140
10141 - AGGCTGGGTGTGGTGGCTCACACCTGTAATCCCAACACTTTGGGAGGCTGAGGTGGATGG - 10200
10201 - ATCACTTGAGGCCAGGAGTTTGAGACCACTGGTCAACGCAGTGAAACCCCATTTCTACT - 10260
10261 - AAAAATACAAAAATTAGCCGAGTGTGCTGGCAAATGCCTATAATCCAGCTACTCAGGTG - 10320

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Fig. 24 (continued; 5/9)

10321 - GCTCAGGCATGAGAATTGCTTGCACCTGGGAGGCTGAGGTTGCAGTGAGCCGAGATTGCA - 10380
10381 - TCACTGCATTACAGCCTGGGCAACAGAGTGAGACTCAGTGTCCAAAAAAAAAAAAAGTA - 10440
10441 - GTGCAGGCTTGTGGCATAGAAATACACTTTCTCAATAATGCCTTACGTTAAGAGAGTACT - 10500
10501 - GCTTGTAAATCATTTTGACATGTATTAGATAAGGTGAAGGATAAAGTACTAAGAGAATCCAT - 10560
10561 - AATGCACTGGCGTTAGTATTTCTCAATGAAATGACAGTCCCCTGGTAAGCGGAGGCTGG - 10620
10621 - CTCTGACAAGCAGCTCTGTCCCAGACGTTGGTCAGTCAGGAACCTGGGTCTCTCCCATG - 10680
10681 - TTCTGCTGCTTCTATGGTGAGGTCAGTCTGTGGTTACACCAAGTTTAAATACAGCCTTTT - 10740
10741 - AACTTTCTTTTTTATATGTAAATCTTACATGTAGTTTTTAGAAATGAAATTATTATACAT - 10800
10801 - GTACCATTTTCATATCCTGTGCCTTTTTTTTCACTTTACATAACATTTTTTCCCTATCAGTAT - 10860
10861 - GTGTAGGGCTATCTTCTCATTATATGGATATATTATATCAGTGCCCTAGTTAAAGCATT - 10920
10921 - TGGGGGTTGTTTACAATTTTTTATTATTACATATAGAACTATAGTGAATTTCTTGTAT - 10980
10981 - ATTTATCACTGGTCAGTTATATAGAACTTATCTGTAGGATAAGTCATGGAATTGAAATGG - 11040
11041 - CTAGGTCACAGTATATGCAGATTTTTTCACTTTTAAATAGATTTTGCTGGATTGCCTTCCAGT - 11100
11101 - GAGGGGGCAGTGTGCCTTCCCCATCAAAAGTTGCTGAGTGCCTAATTCTGCACACTTTGC - 11160
11161 - AAACCTGGGTGTTACTAAATTTTAAACAGCTTGGTCTCTGGGGGTACAGAGGGGACAAAT - 11220
11221 - GCACATTAATCTGAAATCTGGAAGAATAGGCCTTAGGAGATCCGACTTGCTTCAGAATGG - 11280
11281 - CACTTAGCACTTACATGTGTGCATGTGTGCCTGCATTTTTTCTTCTTTTTTTTTTTT - 11340
11341 - GGGACGGAGTCTTGTCTGTGGCCCATCGCCAGGCTGGAGTGCAGTGGCGGATCATAG - 11400
11401 - CTCACCACAACCTCCGCTCCAGGTTCAATGACTCCTCTGCCTCAGCCTCCCAAGCAG - 11460
11461 - CTGGGACCACAGGTGCACACCATCACGCCGGCTAATTTTTGTATTTTAGTAGAAACGGGG - 11520
11521 - TTTACCATATTGGCCAGGCTGGTCTCAAACCTCCTGACCTCGTGATCCGCCACCTCAGC - 11580
11581 - CTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCTGCCATGTGCCTGCATTTTT - 11640
11641 - CTAGGGGGAGAATCTCACTTGATGTACCTGATATACAGAGGGGGCCATTGGAACCCGCA - 11700
11701 - TTGCACAACATCTGGAGTCTGGCTACTCCACGCTTTGGGAGCAGGGAGGGCTGTGGCA - 11760
11761 - GAGACCATCTGTGGACTAGCTGGGGACCCTTGTGAGGTAGCAGTGGATGATGGCTCTCG - 11820

11821 - GGCTGACTTCTTTGCCAGGAAGAAGGTGTGCAGCGGGCCCGGGAGGAGGAGAGAAGCG - 11880
- E E G V Q R A R E E E E K R

11881 - CAAGGAGGTGACCTCGCACTTCCAGGTGACACTGAATGACATTGAGCTGCAGATGGAACA - 11940
- K E V T S H F Q V T L N D I Q L Q M E Q

11941 - GCACAATGAGCGCAACTCCAAGCTGCGCCAAGAGAACATGGAGCTGGCTGAGAGGCTCAA - 12000
- H N E R N S K L R Q E N M E L A E R L K

12001 - GAAGCTGATTGAGCAGTATGAGCTGCGCGAGGAGGTAAGGGTATCACGGACAGCAGTCAT - 12060
- K L I E Q Y E L R E E

12061 - GGCCAGAAATTGTGAGGTTTTGAGTGTGTGCTAGGCACTGGGACAGTACCTTTTCAGGC - 12120
12121 - TTCATCCCATTCTCCCTTTCTTCTCTCTCTCTCTCTCTGGGAGGAGAGTAATGTTATTCC - 12180
12181 - TCATAGATAAAAAACAGGTGTGGAGAAGAGACTCACTTACAGCCACACAGCCCCAGGTCC - 12240
12241 - ACAGTGCCTTGTCCCAATGACTGGGCCAGGCATCTTTTGAATTAGAACTATCCACATT - 12300
12301 - TTAGAATGGAGGTACATGTATGGACTGTGTGTTATATAGCACCCCTCAGCAGGGCCTTGGG - 12360
12361 - GAAGCCAGACACATTAATGTATTTATGCAGTAGAACTTCCAAATACTCACCTACATTATG - 12420
12421 - GGCTTACAATGATGCAGGTCAAGTCTGGCTGCCAGCTTATGACAATTTCCATTTTCAGAA - 12480
12481 - CTTTGTAGAATTTGGAATTGCAGGGGAGGGGTGTACCTGTGATCAGTGATGGACTCCAGA - 12540
12541 - GACTGTGTCCACTGATTCTTGTCTGCTCTGCCACTCAAAGGCAGAAATTTATCAGGCTG - 12600
12601 - GGCGTGGTGGCTCATGCCTGTAATCCCAACACTTTGGGAGGCCAAAGCGGGCGGATCACC - 12660
12661 - TGAGGTGAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAA - 12720
12721 - TACAAAAAATTAGCCAGGTGTGGTGGTGCACGGCTGTAGTCCCAGCTACTCAGGAGGCTG - 12780
12781 - AGGCAGGAGAATTGCTTGAACCCAGGAGGCAGAGGTTGCAATGAGCCAAGATTGTGCTAC - 12840
12841 - TGCACCTAGCCTGGGTGATATACCGAGACTCCATCTCAAAAAAAAAAAAAAAAAAAGC - 12900
12901 - AGGATGTCACTCCCTTTGTCACTGCGTTGGCTGCCACCCAGGCACTTGAATCTTTGGAT - 12960

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Fig. 24 (continued; 6/9)

12961 - CTTCCCTGCCAGTCACCTGGCTGTTCTGGGCGCGTTCTCATCATGAGAAGGGAGACCTGC - 13020
13021 - AGCCCCCTTACAGGGCTGGCAGAGGACCTGCTCTGGATTAGGCCCTTTCCTAGCCCCCTGG - 13080
13081 - GGTGTGGCAGTGGGTGAGACCGGGAAGATCTGCCCTCTTAGGTTTCATAGGCCAAAGTGAT - 13140
13141 - GATCGTGTGTGCAGGACCTAGAGGGCGCTCCCCTGACCCACCCCTTTCCTTGCCATACTT - 13200
13201 - CATCCTCTGGGAACAAAGCTGCTTGTGTTTGGTTTGAGGGGAGTTGGTTTGGTTTCTTATCCC - 13260
13261 - TCAGCGCTGAGACATAGAGGCTTCTGGGCCACTACAGTGAGACACGAACTTCAAGAATC - 13320
13321 - TGAATACCCCCGTTTTCTCTCCCCGCCAAGGCAAAAAAGGACTTAGTACTACCTGTGGAG - 13380
13381 - AAGGAGGTGCAGGACTACCAGGCCCTGCTGCTTTGCATTTACAGCCCTCCCCAGACAGAC - 13440
13441 - ACAGGCACCCCTCATCATACCCAAACTGGACTTACCTGCTAGGCACCTTCCCTTCCCCATC - 13500
13501 - CAAAAAATGGAGTTATTTTCCCTTATTTTCAGCAAGTCCAGTTGATTTTACCTTTGAAGT - 13560
13561 - AGCACCTGAGTCCTTCACCTTCTCTCCATCCCTTCTCTCTCACCTGACACAGGTCTGCAG - 13620
13621 - CGCTCCTCTAGTAGGCAGGACAGCCATTCTTGGGGATGCACATGTCTAGTCTTTGCCTA - 13680
13681 - GATATGGCAAGTCTTTGCCAACTGAGCTAGGCTGTTATGTTCTTAGAGGCATTGTTTTTG - 13740
13741 - CCCATTCTTCCCATTTACAAGAGAATCAGGGACACAGAAGTGAGGGCTTCCAGCCCCATA - 13800
13801 - GGTGATCAATCCTGGGGTGCAGAGATTTGAGTGTGTTTATTGCTTGCCTTCTTGGGAGCAG - 13860
13861 - ATTCCATCCATAAACCATGTGCTTACCAAGGTCTGACTCACTGGGAGAGAAACGACGTGA - 13920
13921 - GGTGAAAGCTGACCTTCCAGAGACTTGGGGCCCATGTTGTGTGGTACACATGGGAGTC - 13980
13981 - CATCATATCAGATTGAGATGGGGGCTGGGCAAGTGCCCTGGTCTGTGGCTGTGGGGCT - 14040

14041 - ACCCTGAGAAAGGGAGCGCCTGACAAGCCGACTGCTCCCACCATCTTTGTTGCAGCATAT - 14100
- H I

14101 - CGACAAAGTCTTCAAACACAAGGACCTACAACAGCAGCTGGTGGATGCCAAGCTCCAGCA - 14160
- D K V F K H K D L Q Q Q L V D A K L Q Q

14161 - GGCCAGGAGATGCTAAAGGAGGCAGAAGAGCGGCACCGGGAGAAGGATTTTGTGAG - 14220
- A Q E M L K E A E E R H Q R E K D F

14221 - GCTCAGGCCCCAGGGTTGGGGTGGGGGTGTGGGAGGAGACAGGCTGGGCTCTGGCTCAGC - 14280
14281 - TCATAGCCGGGTTATATGGGAGAAGTCTGGCCAGACCAGGCACAGATTCTTGAGTACCA - 14340
14341 - GTCTGAGAGCAGGAAGCCTCAGTGGGTCTGGTGCTTGTGGCTAAAAACCAACATAGCCC - 14400

14401 - CTGGGGGCTTCTGACAGGATCTGGGGTCTGTCTTGAAATAGCTCCTGAAAGAGGCAGT - 14460
- L L K E A V

14461 - AGAGTCCCAGAGGATGTGTGAGCTGATGAAGCAGCAAGAGACCCACCTGAAGCAACAGGT - 14520
- E S Q R M C E L M K Q Q E T H L K Q Q

14521 - GAGAGCATATAACCTGACCCTGTGCCTTCAAGTTTCCCTCACTGGGCCCCATCCTGGGGG - 14580
14581 - TAGTGAAATGGGACCCTCATCTAGGACTGGCTGTGTCTTGGCTGCTATGACGCCTTGGT - 14640
14641 - TGAGCTTAGGTGGGCTCAGAGGACTTCATTTGTAGCTCAGAAATGTATTGCTTTTGAGGA - 14700
14701 - GGTAGGAACAGAAGAGTTTGAATCAACATAAAGGCAAAATAAAAGTCACCCTAAGTCT - 14760
14761 - CCTACTTTCCAGGCTTAGCATTTTGGATTATATCCTTCCAAATATATAGCTTTGCTTTGT - 14820
14821 - TTTAAGGAAAAATAGTATCTCAATAGAATTACTGGTCAGAGAGTCAAGGACGGGTCTGAG - 14880
14881 - TGTGTTGACCAGAGTGCCTCCAGAGAAACCCAGTCTTATCTGTGGGCTGCTTTCTCCCC - 14940

14941 - ACAGCTTGCCCTATACACAGAGAAGTTTGGAGGAGTCCAGAACACACTTTCCAAAAGCAG - 15000
- L A L Y T E K F E E F Q N T L S K S S

Fig. 24 (continued; 7/9)

[illegible]

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Fig. 24 (continued; 8/9)

16982 - CCTGGCCCATAAAAGGCTCCCATGCTGAGCAGCCCATTTGCTGAAGCCAGGATGTTCTGAC - 17041
17042 - CTGGCTGGCATCTGGCACTTGCATTTTGGATTTTGTGGGTGAGTTTACGTACATAGGG - 17101
17102 - CATTTTGAAGGCCTTGCAATGCATTTATACCTGTAAGTGACAGTGGGCTTGCAATTGG - 17161
17162 - GGATGGGGGTGTGTACAGATGAAGTCAGTGGCTTGTCTGTGAGCTGAAGAGTCTTGAGAG - 17221
17222 - GGGCTGTCATCTGTAGCTGCCATCAGAGTGGCTTGGCAGAAGTGACTTGAGCATTCTCTCT - 17281
17282 - GTCTGATTTGAGGCTCAGACCCCTCCCTGCCCTTCAGAGCTCAAGACAAGTAATACACCC - 17341
17342 - AGGTCTTGACTGCATTTGTCTGTGAGCAGGGCTTGCTTGCTCAGCTCAGGCCCTCCTAG - 17401
17402 - CTGCTCTGGAGGCTCCTTTGATTCTCTAGACCTGGAAAAGGTGTCCCTAGGCAGAGCCCT - 17461
17462 - GGCAGGGCGCTCAGAGCTGGGATTTGCTGCCTGGAACAAGGGACCTGGAGAATGTTTTT - 17521
17522 - GCGTGGGATGATGTGCTGGTCAGGAGCCCTTGGGCATCGCTTCCCCTGCCCTTTGGTAG - 17581
17582 - TGCCAGGACCAGGCCAATGATGCTTCTCAGTAGCCTTATCATTACAGGTGCCTCTCTAG - 17641
17642 - CCTGCACAAATGATTGACAAGAGATCACCCAAAGGATTATTTCTGAAGGTGTTTTTCT - 17701
17702 - TTATTTCTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGCACATGACAGTGT - 17761
17762 - TGTATTGAGGACCTTCCAAGGAAGAGGGATGCTGTGAGCAGTGGTGCCTGGGTGGCC - 17821
17822 - TCCAGTGTCCACCTCCTTACCACCCCACTTGGCTCCTTTGCCATCTTGATGCTGAGGT - 17881
17882 - TTCCTGTTTGGTGAGATCAGGTGTGTTTGTGGTAAAAGAAAGGAAAGGGCTTCTGATGGCT - 17941
17942 - TTGCCACAAGCTTACCTGTGGGTTTCAGTCTGAGAGGCCACCACAGTTCCTCATCAGCA - 18001
18002 - CTGTCTCCATGCAGCAGTTGCTGGGTCCCATGTCCAGCTGCCTCTTTGGCTTCATGGGTT - 18061
18062 - TTTCTGCTTCCTGCCCCACCCCCACATGTGCAATCCTCAAGATTTGTCTGATTCTATT - 18121
18122 - TCCTGGCACCTCCCTGCCTGTCTTGGGATTTCTACTTCTTCTGTGTGGGAGCCCATAG - 18181
18182 - CTGTTGTCTAACAGGTAAGAAATGAAATTGAATATTGACTGGGCCCCAGAAATCCATAA - 18241
18242 - AATGGCTGCAGACAGTTGTTTCTGTGTCTGTTCTACCCCCACTCCAGTACATAACTACT - 18301
18302 - ATGTACTGTGTAGAGCATTCTATATGCTGAATGTTCTGCTGTTGCAAACTTGCCAGGGT - 18361
18362 - ATTAGCCAGTGTGTTGTGCCAAGCAGTTTCTTGGGACAACAGAATGACTCAGACCAAGATG - 18421
18422 - GATAGGATGGTTAGGGCTTTGCTTCTGCTGTTTTTCTTTGAAGCTAGTTTCATTGTCTG - 18481
18482 - CAGGTCCCTTCATCTCCATACCTAGCCCACTCTTTAGCCCTTACCTTAAATCTCTCAG - 18541
18542 - ATAAGTTGGTTTCAAAAGAAATGTTAAGTACTSAATCATGTGTGACTGAGACCAGAGATGG - 18601
18602 - CAAATGAATGGCACACCATTCTCTCTCTGCTGCCCCAGGGCAGGTACCACTGATCTGCA - 18661
18662 - TCAGAGTTGCCTGCTATTCTCTGGTGTATCCTTCACATCTAGGTGCCCTCAAGCAGCTGT - 18721
18722 - GTGAGTGTGAGATCTCTGCCATCTCTGGCTGAGATACTGCTGTCTGCTGTAAGTGTTC - 18781
18782 - CATGACCTTTTTCTTCCCTTTGAATCCCTCTGTCTGGAGTAGTCCTTGCCTCTTCTGCTG - 18841
18842 - TCCAGTAGGCTTTTCCCTACCCAGCCCTGTGCCAGGCTAAGCTGGTACAAGAGCTG - 18901
18902 - CCAACCTCACAGAGTGTGTTGCTAGGCGAGAGAGTGCAGGGAAGAGGCAGAGGTATGCAC - 18961
18962 - CTTCCCCCTTGAAGAGAGGGGAAAGGCCCTACAGTGGCCCAATAATTGCCTGACTCACAC - 19021
19022 - TTCAGCTACCTCTTAATGCCTGTGGAGGGACTGGAGCTGCTGGATCCAGTGTGTTGCTG - 19081
19082 - TAGGAGGCCACAGTGAGCAGGTGGCCCCAGCTGGGTTTCCAGGTGAGGAATGTGGGCC - 19141
19142 - CAGGCAAGGTGCAGCCTTTGCTCACAGCTCCATCCATGTCTAGACCTTCAGGCCAGTCTG - 19201
19202 - CAGATGAGGTTCCCTACCTTTTTCTTCTCTTCTATTGACCAAATCAACCAATCACTACAGC - 19261
19262 - TGCTCTGCTTCTGCTTTCCAAAGTAGCCCAAGTCTGCGGCCAGATGCAGGGGAGGTGCCT - 19321
19322 - ATCCATGAGTGAAGGCCAGTGTCTTCTCACCTGGGTGGGTCCCACACTTGTGACCTCAG - 19381
19382 - TTTTAGGACCAAGATCTGTGTTGGTTTTCTTAGATTGCTAGCTTTTCTCCAGGGGACCAC - 19441
19442 - AGCAGGTGAAGCTCAAGAGCGCATGGCTCTGCTAATAGTAAATTGTTTTCAGGGCCTTGT - 19501
19502 - CCAGCTGAGAGCTTCATGTCCACGATTCTGAGAGGTGTGAGCAGCACTTTTTTTTTTT - 19561
19562 - ATTTGTTGTTTGTGTTTTCCATGAGGTTATCGGACCATGGGCTGAGCTCAGGCACTTTCTGT - 19621
19622 - AGGAGACTGTTATTTCTGTAAAGATGGTTATTTAACCCTTCTCACCCCATCACGGTGGCC - 19681
19682 - CTGAGGGCTGACCCGGAGGCCAGTGGAGCTGCCTGGTGTCCACGGGGGAGGGCCAAGGCC - 19741
19742 - TGCTGAGCTGATTCTCCAGCTGCTGCCCCAGCCTTCCGCCTTGACAGCACAGAGGTGG - 19801
19802 - TCACCCAGGGACAGCCAGGCACCTGCTCTCTTGCCTTCTGCGGGGAAGGGAGCTGCC - 19861
19862 - TTCTGTCCCTGTAAGTGTCTTCTTATGCCCCAGCCCGGCCACTCAGACTTGTGTTGAAGC - 19921
19922 - TGCAGTGGCAGCTTTTTGTCTCCTTTGGGTATTCAACAGCCAGGCACTTGATTTTGA - 19981
19982 - TGTATTTTAAACCACATTAAATAAAGAGTCTGTTGCCTTACTTGTCTCTCTGACCTG - 20041
20042 - TGTATTCCTTTGTTTCTGGATCTGATCCATTAGCCCCCTTCCATCATCACTGACTTGTT - 20101
20102 - AGGTCTGTGTCAGAGCGCCATGGTGGTCCCTGGTATCTTACATATTCCACAGTGTCTT - 20161
20162 - TGAGCAGTCGCCACAGCCTCAGGATGCTGGCATTTCACTTGAAGTGCCTGAGTGGAGCC - 20221
20222 - CTTGGCAAAGTTGGCAAGACCCTTGCTCAGAGGATCACACACACAAAAAGTTTT - 20281

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Fig. 24 (continued; 9/9)

20282 - CCCTGACCTGGGGGCTCACAGGCTAGTGAAGGAAAAGGTACTTTTAGCTATAGACAGGT - 20341
20342 - CAATGGTGTCTGAGAGCAGAGAGGAGGCCCTGCCCTTCAGCAAGGTGAGGGGGTGATA - 20401
20402 - CCTGGAATGGCCTTCTGAACCACAGGGCAGGTAGAAGATGAACGTCATTTAGTGATTAAA - 20461
20462 - TGGTACAGCTGGGAAGCAGGTCCATGGGACTGGGAGAGGGGGTGAGGCTGGGCCCAGAGT - 20521
20522 - CTGGGTACCAGGTTAAGGAATGTGGGCTAGATCCAGAGGGCAGGGGGGGCAACTGAAGGT - 20581
20582 - GTTTTCAATAGGAAATTGATAGGCTCCAGCAGTAAGGCAAAGGCATGGAGCCAGGCATAG - 2064
20642 - GCCATTTGAGGCCCAGGTTAAGAGGGGTGGACACTCATCACTGCTATTTGGGTCTGAGCT - 20701
20702 - GTGGGTAGGCTCCTATAGCCCTGGCCTGCCCAAGGGAATTCACAGGGGCCTCTAATTGTA - 20761
20762 - TGCATTCTTTAAGGAGACACATTTCTGTTCAGTTTTTACACCCCCCATTTACCCACCT - 20821
20822 - CAAGCATGGGACTCCTATATAGGACATGCTGCTGGTGGCCCTCACCAGCACCCCTGTTC - 20881
20882 - TCTCTGGGTCTGGGTTGGTCAGGCACAAAGGATGATATGTGCTGAATGCCCAAGGAATG - 20941
20942 - GCAGAGACAACCCACCTGCCCTTCCCTCCAGGCCTCCACAAATAGATGTGCCCAATAAG - 21001
21002 - CTGTGACAGTCCCAGCAGAGCCTCTGACCCCTTCTAGCTGGGTCTGATACATGTTTTCCA - 21061
21062 - TGCTGGCCATGTTATTTCTAGTCGCAGATCCTCTGGAGGGTGTGGGGGGGTGCCGCCCC - 21121
21122 - AACTCTTGGAGATTCCAAGCAAAGCAGCTCTGAGAATAATGAGGTTTCTGACCCCCCAGT - 21181
21182 - GAAGCAGCTGAGGATGGGAACCACAGGGGTGCTCCCTCTGTCAGCAGCATTACCACTGTC - 21241
21242 - TACTCTAGCAGCTCCGGTGGGGAAGGAGAGGGATTTCTGTTGTCCCCAGTCTGGGCCCCCT - 21301
21302 - GGTATTGAAAAAGTTCGGAATTACTCTTTACCCTTGTGGAGTGTTCTGAGTGTTGGAAG - 21361
21362 - TACCAGGAAGAAGCCCTGAGCAGGTGCCCTCAGGAGCAGTGCCCATGGCTCCCCACATC - 21421
21422 - AGCCAAGAGGGCCCAACCCAGGAAGCCACTCCTGCCCGGGGATGGGGAAGGTGGGCTGGG - 21481
21482 - TGGCTGTGTGCACTGCCCTGGGCCAGCTCACTTGAGCCTGCTGAGCCGCTGGCCAAACA - 21541
21542 - TGAGCCTCTCTCCTGTTGTATCAGATGCTGTTCTGGGACAGTGCGCCAGGAGCCTCTGCC - 21601
21602 - AGGGCTTTAAATAGCTGCCCCATTGATCTGGCTGCAGGCAGCAGCAGTCACACTGGGTC - 21661
21662 - AGCCTCCATCAGGTGCTCAGGTTTCCCTGAGGACTGGAGTCAGGTGCCAGGGAATCGCGT - 21721
21722 - GGTCTACCTTATGACCTGGTGCTCCCCACACCTGTCTCCTAGGCCTGGGGGGTGGGGAGG - 21781
21782 - ACTCCTGTCACTTCATCTGCGGCAAAATACAGCCCCACCCTTACCAGAGAAAACCTGTC - 21841
21842 - TGGCATTGTAGAGAGAGGGGTTTTGCCCTCAAAGACTGTTGCTTACTTTTCAGTAGAATG - 21901
21902 - GGGAAATGACACTGGTATCTTCCCTTAAGGGTTGTTATGGGGATGAAATGTATGTTAAAGTGC - 21961
21962 - TCAATAGGCACTGGACTCATCCATTGATGGCTGTCTTTGCTCGAAGTGCTTCTCTGAT - 22021
22022 - GCTGCTGCTGTTGCTGCTTGTCTCTCTCTGTGCTTACATCTCTCTCTCACTCACTC - 22081
22082 - ACTCTGTCTCTCCTCTCCCCCGCCCCACCCCTTTCTGACAAAGCCACCACCATTTTGTGA - 22141
22142 - AGGAACTGTAGCTTCTCTCTGAACTGCCGGGAAAGGGAAAATCTTTTTAAATAGACAT - 22201
22202 - CACACAACCAACAGGGTCCCCTAGGTTCAGGCGGGGAGGTGAGGTGAGTGAGA - 22255